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ABSTRACT

Enrollment projections for higher education in Washington State for the 1980's are made, and the concept of demand and factors that may be responsible for the projected enrollment levels are considered. Projections are offered for the total system of four-year institutions, for each of the four-year schools separately, and for the community college system. System-wide data are provided regarding: headcounts, freshmen, the graduate/undergraduate mix, average credit hour per student, transfer students, the percent of high school students who attend college, the relationship of population to enrollment, retention rates, and faculty entitlements. The following four meanings related to the concept of demand are considered: demand as a function of historical rates, funded demand, demand as a function of institutional capacity, and unrestrained demand. The following possible causes of enrollment increases are briefly addressed: immigration, economic conditions, demand for credentials, women in the labor force, financial aid, and marketing. Definitions of terms and an explanation of the study methodology are included. (SW)

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SPECIAL REPORT NO. 32

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HIGHER EDUCATION ENROLLMENT OUTLOOK AND FORECASTS FOR 1981-1983 BIENNIUM

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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OFFICE OF FINANCIAL MANAGEMENT
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JAN 19 1981

PREFACE

No attempt is made in this report to formulate or recommend specific educational policies. Rather, the intent of the report is to provide a comprehensive description of the most probable student enrollment scenario in higher education that the state of Washington can expect to encounter in the decade of the 1980's.

Special recognition is given to the following persons who contributed technical assistance to the authors of this report: Jeff Tayman - demographics and computer programming; Diana Brunink - analytical support and graphics; Spence Hall - graphics; Felix D'Allesandro - computer programming; and, Debbi Stai - typing.

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INTRODUCTION

From the mid-1970's until the present we were told that the 1980's would be a decade of significant enrollment reductions in higher education. Demographers assured us that during this decade the age cohorts of primary concern to higher education (18-24) would decline 15 to 20 percent as the post World War II babies moved out of this college age group. The golden age of higher education was ending, to be replaced by an era of institutional retrenchment and stagnation.

Although there is evidence that this scenario is valid for some parts of the nation, it is a basic premise of this report that such a scenario is not likely to be realized in the state of Washington. Indeed, our analysis of the factors influencing enrollment levels in higher education indicate that in the ensuing decade there is a strong possibility that the demand for educational services, at both the community colleges and the public four-year college and universities, will not drop below the enrollment levels attained in the academic year 1979-80.

The first two sections of the report contain definitions of central terms and a description of the forecasting methodology employed in the development of the report. The third section, titled "Enrollment Highlights," attempts to summarize key aspects of the enrollment picture for the entire system as well as each of the public four-year institutions and the community college system. The fourth section contains a discussion of the concept "demand" as well as various factors that may be responsible for the enrollment levels projected for the 1980's.

SECTION 1: DEFINITION OF TERMS

Full Time Equivalent (FTE)...

the number of credit hours that is considered, for budget purposes, equal to a full time student. In the four-year institutions 10 credit hours equals one graduate FTE, and 15 credit hours equals one undergraduate FTE. In the community college system one FTE equals 15 credit hours.

Faculty Entitlement...

a budget unit derived by applying a funding formula to credit hours by cost area and course level. Headcount enrollment and FTE's are not included in the computation of faculty entitlements. This budget unit is not employed in the community college system.

Faculty Fntitlements are reported in this report at a funding level below 100 percent: 72% for Central, Eastern, Evergreen and Western; 70% for the University of Washington and Washington State.

Annual Average...

in the four-year institutions the term "annual average" refers to enrollment data that has been summed for the three quarters of the academic year, fall, winter and spring, and divided by three to find the average. In the case of Washington State University only two academic terms are used. However, in the community college system the term "annual average" refers to enrollment data that has been summed for four quarters, summer, fall, winter and spring, and divided by three in order to find the average.

Participation Rate...

a term used to describe the percent of persons from a given age group in the general population that are enrolled in the higher education system.

Retention Rate...

a term used to describe the percent of students, by class, enrolled in an institution spring term who return in the fall.

Succession Rate...

the percent of high school graduates who enter an institution of higher education within twelve months after graduation.

Tolerance Band...

a range below the enrollment contract which the four year institutions and the community colleges are allowed to go before being required to revert funds. The "bands" are as follows:

UW and WSU = 1 %
CWU, EWU, and WWU = 2%
TESC = 3%
Community Colleges = 1%.

SECTION 2: METHODOLOGY

(1) Enrollment forecasts for the four-year institutions were derived using the following procedure:

(A) actual 1979-80 annual average fall off rates by age and sex were multiplied times the actual Fall 1980 data to obtain an estimated annual average enrollment for 1980-81 (Note: The age and sex detail is that reported in HEEP Table 1);

(B) annual average participation rates by age and sex for both 1979-80 and 1980-81 were aver ,,ed;

(C) these participation rates were multiplied by the age and sex - specific population distributions for the forecast period.

It should be noted, here, that because of our recent development of a computerized enrollment projection model we have the capability to compute participation rates by age and sex. The product of the participation rates and population are summed over all age and sex groups to obtain an institutional total. Since participation rates vary by age and sex, taking account of these differences provides a more accurate appraisal than simply employing a total participation rate.

(2) The credit hour forecasts were obtained by:

(A) computing the mean of the 1979-80 actual and 1980-81 estimated average credit hours per student by age and sex;

(B) multiplying these average credit hours per student by the forecast enrollment by age and sex.

(3) FTE's were computed by dividing community college and undergraduate credit hours by 15, and graduate credit hours by 10.

(4) Faculty Entitlements were computed in the following manner:

Cost Area by Level		Formula		% of Formula
Comparable Regular				.70 or .72
100-200	÷	300	x	" "
300-400	÷	165	x	" "
500	÷	70	x	" "
600+	÷	50	x	" "
Comparable High Cost				.70 or .72
100-200	÷	180	x	" "
300-400	÷	105	x	" "
500	÷	70	x	" "
600+	÷	50	x	" "

(5) Because final Fall 1980 enrollment data is unavailable from the community college system until January 1981, forecasts done last spring, using final Fall 1979 data, have been substituted. The methodology employed, where different from that used in the four-year institutions, is described on the bottom of the forecast tables.

SECTION 3: ENROLLMENT HIGHLIGHTS

This section of the report is divided into three parts. The first concerns the total enrollment picture of the four-year institutions. The second examines each of the four-year institutions separately. The third discusses the enrollment situation in the community college system.

Total Four-Year System

(1) Headcount: Fall 1980 saw an increase in the four-year system over 1979 levels which could lead to an annual average headcount increase of just less than 1,000 (see Table 1).

(2) Freshman: Fall 1980 saw the largest freshman class (18,961) in the history of the four year system. This followed a 1979 freshman class (18,951) which is now the second largest (see Table 2). It is obvious that future discussions of higher education trends must take these two groups into account as they matriculate through the system.

(3) Graduate/Undergraduate Mix: The number of graduate students has remained relatively constant since Fall of 1977; somewhere between 13,000 and 13,300 (see Table 3). There was a decline of 68 graduate students from Fall 1979 to 1980. However, the undergraduate situation is quite different. Fall 1980 saw undergraduate enrollment up 728 over Fall 1979 and 2,084 since Fall of 1977.

(4) Average Credit Hour Per Student: On an annual average basis it appears that this rate will increase for 1980-81 (see Table 4). The average credit hour per student is an indicator of the part-time/full-time student mix. The rise in this rate would seem to corroborate the fact that full-time day on campus student enrollment is up throughout the entire higher education system, including community colleges.

(5) Transfers: The number of transfers from the community colleges increased over Fall 1979 levels. However, not all four year institutions were up in this enrollment category. The University of Washington and Central were both

TABLE 1
ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
SYSTEM TOTAL

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	17320	17971	17465	17022	16511	15893	15328	15239	15549	16085	16398
FEMALE	17900	18563	18041	17602	17090	16477	16020	15980	16320	16882	17089
TOTAL	35420	36534	35506	34624	33601	32370	31348	31219	31869	32967	33487
22-24											
MALE	9909	9928	10063	9977	9896	9787	9637	9322	8897	8549	8371
FEMALE	7020	7026	7214	7266	7264	7220	7072	6842	6571	6357	6258
TOTAL	16929	16954	17277	17243	17160	17007	16709	16164	15468	14906	14629
25-29											
MALE	7818	7592	8148	8334	8434	8561	8587	8548	8483	8404	8168
FEMALE	5185	5275	5396	5480	5546	5657	5729	5755	5769	5729	5587
TOTAL	13003	12866	13544	13814	13980	14218	14316	14303	14252	14133	13755
30-34											
MALE	3230	3245	3446	3625	3792	3966	4133	4280	4384	4437	4494
FEMALE	2907	2989	3070	3127	3198	3271	3359	3423	3482	3527	3589
TOTAL	6137	6233	6516	6752	6990	7237	7492	7703	7866	7964	8083
35-44											
MALE	1596	1565	1732	1840	1942	2073	2215	2320	2441	2560	2691
FEMALE	2516	2517	2778	2972	3151	3348	3539	3701	3838	3973	4118
TOTAL	4112	4082	4510	4812	5093	5421	5754	6021	6279	6533	6809
45-59											
MALE	509	477	489	494	506	520	533	556	591	624	654
FEMALE	1138	1055	1093	1104	1116	1136	1160	1196	1256	1323	1381
TOTAL	1647	1532	1582	1598	1622	1656	1693	1752	1847	1947	2035
TOTAL											
MALE	40904	41027	41608	41560	41354	41080	40717	40554	40637	40954	41078
FEMALE	37132	38145	38185	38159	37984	37740	37524	37552	37898	38463	38707
TOTAL	78036	79172	79793	79719	79338	78820	78241	78106	78535	79417	79785
18-59											
MALE	40593	40778	41343	41292	41081	40800	40433	40265	40345	40659	40776
FEMALE	36679	37424	37592	37551	37365	37109	36879	36897	37236	37791	38022
TOTAL	77272	78202	78935	78843	78446	77909	77312	77162	77581	78450	78798
30-39											
MALE	5340	5287	5667	5959	6240	6559	6881	7156	7416	7621	7839
FEMALE	6566	6560	6941	7203	7465	7755	8058	8320	8576	8823	9088
TOTAL	11906	11848	12608	13162	13705	14314	14939	15476	15992	16444	16927

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TABLE 2

FALL TERM FRESHMAN ENROLLMENT
PUBLIC FOUR-YEAR COLLEGE AND UNIVERSITIES
FALL 1971-80

	UW	WSU	CWU	EWU	TESC	WWU	STATE
1971	5,461	3,846	2,130	1,924	814	2,888	17,063
1972	6,194	3,690	1,698	1,921	1,003	2,365	16,871
1973	5,972	3,760	1,621	1,961	783	2,138	16,235
1974	5,659	4,461	1,831	2,010	905	2,279	17,145
1975	5,474	4,549	1,414	1,963	812	2,336	16,548
1976	5,341	4,400	1,762	1,787	745	2,516	16,551
1977	6,417	4,211	1,730	1,579	826	2,625	17,388
1978	6,534	4,253	1,728	1,609	773	2,735	17,632
1979	6,782	4,694	2,016	1,969	874	2,616	18,951
1980	6,504	4,788	1,874	2,118	745	2,932	18,961

SOURCE: HEEP

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TABLE 3

FALL ENROLLMENT - UNDERGRADUATE[1] AND GRADUATE[2]

FALL 1974-1980

	1974	1975	1976	1977	1978	1979	1980
State Total	74,519	78,182	78,400	80,425	79,486	82,036	82,696
Undergraduate	63,209	65,904	65,852	67,403	66,383	68,759	69,487
Graduate	11,310	12,278	12,548	13,022	13,103	13,277	13,209
% Grad of Total	15.18	15.70	16.01	16.19	16.48	16.18	15.97
UW Total	34,504	35,434	35,277	37,120	36,249	37,037	36,155
Undergraduate	26,391	26,781	26,560	27,993	27,081	27,776	26,880
Graduate	8,113	8,653	8,717	9,127	9,168	9,261	9,275
% Grad of Total	23.51	24.42	24.71	24.59	25.29	25.00	25.65
WSU Total	15,613	16,184	16,693	16,665	16,679	16,748	17,236
Undergraduate	13,570	13,951	14,428	14,366	14,314	14,447	14,921
Graduate	2,043	2,233	2,265	2,299	2,365	2,301	2,315
% Grad of Total	13.09	13.80	13.57	13.80	14.18	13.74	13.43
CWU Total	6,965	7,674	7,776	7,900	7,423	7,909	7,551
Undergraduate	6,660	7,418	7,480	7,579	7,163	7,666	7,329
Graduate	305	256	296	321	260	243	222
% Grad of Total	4.38	3.34	3.81	4.06	3.50	3.07	2.94
EWU Total	6,390	7,185	6,895	6,837	7,013	7,724	8,333
Undergraduate	6,006	6,682	6,360	6,264	6,426	6,996	7,669
Graduate	384	503	535	573	587	728	664
% Grad of Total	6.01	7.00	7.76	8.38	8.37	9.43	7.97
TESC Total	2,446	2,507	2,636	2,544	2,322	2,514	2,805
Undergraduate	2,446	2,507	2,636	2,544	2,322	2,514	2,765
Graduate	—	—	—	—	—	—	40
% Grad of Total	—	—	—	--	—	—	1.43
WWU Total	8,601	9,198	9,123	9,359	9,800	10,104	10,616
Undergraduate	8,136	8,565	8,388	8,657	9,077	9,360	9,923
Graduate	465	633	735	702	723	744	693
% Grad of Total	5.41	6.88	8.06	7.50	7.38	7.36	6.53

[1]Undergraduate = Freshman + Sophomore + Junior + Senior + Unclassified 5's & Other.

[2] Graduate = Graduates & Professionals.

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STUDENT CREDIT HOUR AND ENROLLMENT FORECASTS
FOUR YEAR INSTITUTIONS 1981-82 TO 1986-87 TABLE 4

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
CWU								
TOTAL AA CREDIT HOURS	86627	87376	89102	88763	88014	87114	86212	86028
AA HEADCOUNT	7412	7153	7440	7492	7516	7517	7514	7512
AA CREDIT HRS/STUDENT	11.69	12.21	11.98	11.85	11.71	11.59	11.47	11.45
TESC								
TOTAL AA CREDIT HOURS	32629	36556	35261	35423	35457	35411	35326	35352
AA HEADCOUNT	2455	2760	2648	2669	2681	2690	2690	2694
AA CREDIT HRS/STUDENT	13.29	13.24	13.32	13.27	13.23	13.16	13.13	13.12
EWU								
TOTAL AA CREDIT HOURS	98670	108249	103313	105172	104567	103724	102849	102639
AA HEADCOUNT	7656	8469	8200	8242	8247	8247	8233	8263
AA CREDIT HRS/STUDENT	12.89	12.78	12.84	12.76	12.68	12.58	12.49	12.42
UW								
TOTAL AA CREDIT HOURS	436949	429218	440157	439055	436236	432422	428092	426242
AA HEADCOUNT	34235	33517	34539	34503	34503	34346	34147	34083
AA CREDIT HRS/STUDENT	12.76	12.81	12.74	12.70	12.61	12.59	12.54	12.51
WWU								
TOTAL AA CREDIT HOURS	135440	142530	139531	138388	136640	134513	132383	131512
AA HEADCOUNT	9849	10324	10193	10144	10059	9950	9845	9811
AA CREDIT HRS/STUDENT	13.75	13.80	13.69	13.64	13.58	13.52	13.45	13.40
WSU								
TOTAL AA CREDIT HOURS	240446	248795	246547	243913	239853	235391	230988	228761
AA HEADCOUNT	16432	16946	16773	16589	16332	16070	15812	15743
AA CREDIT HRS/STUDENT	14.63	14.68	14.70	14.70	14.69	14.65	14.61	14.53
SYSTEM TOTAL								
TOTAL AA CREDIT HOURS	1030761	1052724	1033911	1050714	1040767	1028575	1015850	1010534
AA HEADCOUNT	78039	79169	79793	79719	79338	78820	78241	78106
AA CREDIT HRS/STUDENT	13.21	13.30	13.23	13.18	13.12	13.05	12.98	12.94

down, 14 percent, and 5.7 percent, respectively (see Table 5). Nevertheless, the overall increase among transfers from the community colleges should be examined; such an increase has direct implications for the lower division upper division credit hour mix.

(6) Entering High School Students: The number of public high school graduates declined by 706, or 1.4 percent from Fall of 1979. But, the percent of those students who went on to a four year institution increased. Thus, the actual number of high school graduates who went on to college was down by only 46. In other words, even though the pool of potential freshmen is apparently shrinking, the percent of those in the pool who elect to go on to college (the succession rate) is increasing (see Table 6).

(7) The Relationship of Population to Enrollment: The traditional method of forecasting student enrollment in higher education is based upon the demographic make-up of the general population. Forecasters compare the number of students enrolled in higher education with the number of persons in the population. This ratio gives the percent of persons (the participation rate) in the population enrolled in higher education. This method is further refined so that participation rates by single years of age and by sex can be obtained for each institution. The important point to remember is that this rate is a product of actual enrollment and estimated population projections. Thus, it is the accuracy of the population forecast that determines the accuracy of the enrollment forecast.

Projected population forecasts for the state of Washington for those ages most likely to attend college indicates a sustained potential pool of applicants throughout the decade of the 1980's (see Table 7). We estimate an increase of 648,591 persons between the ages of 18-59 for this period. Thus, even if participation rates were to decline enrollment levels are likely to remain constant. Whether or not participation rates are declining is not clear at this time as the historical rates on Table 8 indicate. Preliminary analysis of Fall 1980 data indicates that they are holding steady or increasing in some cases.

TABLE 5

PUBLIC FOUR YEAR COLLEGE & UNIVERSITIES COMMUNITY COLLEGE TRANSFERS

10TH DAY FALL HEADCOUNT ENROLLMENT[1]

	1974	1975	1976	1977	1978	1979	1980
Total CC Transfers	4,783	4,604	4,549	4,387	3,921	4,761	4,795
U of W							
CC Transfers	1,975	2,027	1,834	1,599	1,081	1,482	1,273
% of Total	41.3	44.0	40.3	36.4	27.6	31.1	26.5
WSU							
CC Transfers	723	727	772	663	783	759	820
% of Total	15.1	15.8	17.0	15.1	20.0	15.9	17.1
CWU							
CC Transfers	543	430	426	652	573	845	797
% of Total	11.3	9.3	9.4	14.9	14.6	17.7	16.6
EWU							
CC Tranfers	487	486	532	527	530	603	739
% of Total	10.2	10.6	11.7	12.0	13.5	12.7	15.4
TESC							
CC Tranfers	151	146	207	152	134	277	337
% of Total	3.2	3.2	4.5	3.5	3.4	5.8	7.0
WWU							
CC Transfers	904	788	778	794	820	795	829
% of Total	18.9	17.1	17.1	18.1	20.9	16.7	17.3

[1]Fall 1979 definitional changes compromises data comparisons with prior years. Many students previously classified as CC transfers are now classified as former students returning.

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TABLE 6

ENTRANCES FROM WASHINGTON HIGH SCHOOLS

10TH DAY FALL TERM HEADCOUNT ENROLLMENT[1]

	1974	1975	1976	1977	1978	1979	1980
High School Graduates							
Public Only	51,868	50,990	51,012	50,885	51,101	51,108	50,402
Public and Private[2]	54,288	53,353	53,401	53,434	53,508	53,759	53,145
Total Entrances from H.S.	9,087	8,563	8,202	8,415	8,515	8,721	8,675
Succession Rate							
Public Only	.1752	.1679	.1608	.1654	.1666	.1706	.1721
Pub. & Private	.1674	.1604	.1536	.1575	.1591	.1622	.1632
U of W							
Entrances from H.S.	3,310	2,908	2,830	2,376	3,163	3,133	2,932
% of H.S. Entrances	36.4	34.0	34.5	40.1	37.1	35.9	33.8
WSU							
Entrances from H.S.	3,001	2,919	2,611	2,367	2,398	2,593	2,564
% of H.S. Entrances	33.0	34.1	31.8	28.1	28.2	29.7	29.6
CWU							
Entrances from H.S.	831	693	717	672	788	858	770
% of H.S. Entrances	9.1	8.1	8.7	8.0	9.3	9.8	8.9
EWU							
Entrances from H.S.	826	879	732	696	753	952	923
% of H.S. Entrances	9.1	10.3	8.9	8.3	8.8	10.9	10.6
TESC							
Entrances from H.S.	133	94	79	65	53	62	83
% of H.S. Entrances	1.5	1.1	1.0	0.8	0.6	0.7	1.0
WWU							
Entrances from H.S.	986	1,070	1,233	1,239	1,360	1,123	1,403
% of H.S. Entrances	10.9	12.5	15.0	14.7	16.0	12.9	16.2

[1]Fall-to-Fall data for 1974-1978. Spring-to-Fall data for 1979-1980.

[2] Estimated public and private high school graduates. Private high school data estimated after 1968.

TABLE 7
WASHINGTON STATE
POPULATION PROJECTIONS - SELECTED AGES
FOR THE YEARS 1979 To 1990

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
18-21	306,898	310,957	312,627	307,549	299,294	290,037	279,711	271,478	271,837	278,002	287,517	289,667
Male	158,773	160,695	161,208	158,397	153,927	148,974	143,580	138,927	139,176	142,342	147,270	148,534
Female	148,125	150,262	151,419	149,152	145,367	141,063	136,131	132,551	132,661	135,660	140,247	141,133
22-24	232,796	241,700	244,117	247,634	247,719	248,091	245,456	241,572	235,095	225,271	216,314	211,411
Male	123,564	129,333	130,506	131,854	130,863	130,457	128,701	126,814	123,442	118,050	112,912	110,102
Female	109,232	112,367	113,611	115,780	116,856	117,634	116,755	114,758	111,653	107,221	103,402	101,309
25-29	366,753	384,362	399,148	411,426	419,586	426,156	433,427	437,121	438,011	436,928	434,554	424,166
Male	191,712	202,769	211,972	220,481	225,732	229,576	233,116	234,237	233,716	232,037	230,434	224,459
Female	175,041	181,593	187,176	190,945	193,854	196,580	200,311	202,884	204,295	204,891	204,120	199,707
30-34	312,606	338,662	364,173	373,398	385,534	399,780	412,956	427,411	440,604	450,019	456,916	463,929
Male	154,615	168,244	182,726	188,568	197,624	207,364	216,461	225,605	234,686	240,601	244,626	248,014
Female	157,991	170,418	181,447	184,830	187,910	192,416	196,495	201,806	205,918	209,418	212,290	215,915
35-59	1,026,266	1,055,445	1,077,907	1,113,877	1,152,330	1,191,103	1,235,784	1,283,016	1,333,482	1,388,911	1,445,861	1,504,737
Male	509,331	524,537	535,773	553,800	572,766	592,487	615,960	641,413	668,208	698,497	729,687	762,247
Female	516,935	530,908	542,134	560,077	579,564	598,616	619,824	641,603	665,274	690,414	716,174	742,490

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TAPLE 8

ANNUAL AVERAGE

HIGHER EDUCATION ENROLLMENT PARTICIPATION RATES

BY SEX AND SELECTED AGE GROUPS

ALL FOUR-YEAR INSTITUTIONS

	1977-78	1978-79	1979-80
18-21			
Male	0.114366	0.106885	0.109039
Female	0.120375	0.116170	0.119142
Total	0.117273	0.111370	0.113916
22-24			
Male	0.087894	0.080312	0.076646
Female	0.063002	0.064369	0.062500
Total	0.076064	0.072833	0.070081
25-29			
Male	0.044893	0.040816	0.038564
Female	0.030371	0.029449	0.028570
Total	0.037893	0.035398	0.033853
30-34			
Male	0.023019	0.021560	0.019212
Female	0.017859	0.018254	0.017069
Total	0.020422	0.019895	0.018142
35+			
Male	0.002970	0.002883	0.002790
Female	0.004527	0.004542	0.004406
Total	0.003786	0.003753	0.003635

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(8) Retention Rates: (Graphs of retention rates contained in Appendix A) One of the more important enrollment variables to consider is the retention rate; i.e., the number of students who return to an institution the next fall. Often we become so concerned with the number of new students that we fail to recognize the importance to the enrollment process of returning students. For example, our analysis indicates that a one percent increase in the retention rate for the four-year system could raise the total number of FTE's in the system by approximately 650. The Fall 1980 retention rate in the four-year system was up by 1.8 percent.

(9) Faculty Entitlements: (Graphs of faculty entitlements compared to contract are contained in Appendix B) As stated earlier, the college and universities are funded on the basis of faculty entitlements, not on the basis of headcount or FTE's. It is instructive, therefore, to examine the historical and estimated (1980-81) faculty entitlement funding patterns. We note, for example, that the number of faculty entitlements for the total system has, with the exception of 1978-79, increased for the last seven years. But, interestingly, this pattern does not hold for the individual schools. Indeed, the graphs clearly demonstrate the differential enrollment behavior of the institutions which comprise the four-year higher education system in our state.

Individual Four-Year Institutions

University of Washington (see Tables 9 and 10)

Fall 1980 enrollment was down from Fall 1979 levels. On an annual average basis this would put the University's enrollment at contract for the second year of this biennium, 1980-81. The drop in enrollment is entirely the result of a decrease in undergraduate enrollment as graduate enrollment is up slightly. The average credit hour per student is up. Therefore, even with the decline in enrollment it is estimated that the University of Washington will be at contract faculty entitlements for 1980-81.

Table 9

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
(a)

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	7282	7174	7118	6936	6728	6476	6246	6210	6337	6554	6684
FEMALE	6643	6684	6602	6446	6264	6039	5866	5842	5955	6153	6245
TOTAL	13925	13858	13720	13382	12992	12515	12112	12052	12292	12707	12929
22-24											
MALE	4502	4257	4446	4407	4380	4329	4262	4131	3947	3787	3703
FEMALE	3134	3147	3225	3251	3255	3233	3170	3071	2949	2851	2804
TOTAL	7636	7404	7671	7658	7635	7562	7432	7202	6896	6638	6507
25-29											
MALE	4362	4025	4440	4542	4599	4667	4681	4662	4626	4584	4454
FEMALE	2826	2804	2910	2955	2992	3049	3089	3107	3113	3090	3017
TOTAL	7188	6829	7350	7497	7591	7716	7770	7769	7739	7674	7471
30-34											
MALE	1681	1616	1759	1853	1935	2024	2108	2182	2236	2260	2290
FEMALE	1399	1439	1481	1509	1544	1579	1620	1652	1680	1701	1730
TOTAL	3080	3055	3240	3362	3479	3603	3728	3834	3916	3961	4020
35-44											
MALE	670	656	729	772	814	870	932	972	1023	1073	1125
FEMALE	942	972	1059	1133	1201	1275	1348	1406	1455	1505	1557
TOTAL	1612	1628	1788	1905	2015	2145	2280	2378	2478	2578	2682
45-59											
MALE	122	125	124	124	127	130	133	139	147	156	163
FEMALE	339	316	329	332	337	343	352	364	383	404	422
TOTAL	461	441	453	456	464	473	485	503	530	560	585
TOTAL											
MALE	18774	17970	18752	18772	18723	18638	18507	18441	18466	18566	18574
FEMALE	15460	15547	15787	15811	15780	15708	15640	15639	15735	15907	15981
TOTAL	34234	33517	34539	34583	34503	34346	34147	34083	34201	34473	34555
18-59											
MALE	18622	17852	18614	18634	18583	18496	18362	18296	18316	18414	18419
FEMALE	15285	15362	15606	15626	15593	15518	15445	15442	15535	15704	15775
TOTAL	33907	33215	34222	34260	34176	34014	33807	33738	33851	34118	34194
30-59											
MALE	2474	2396	2612	2749	2876	3024	3173	3293	3406	3489	3578
FEMALE	2680	2728	2869	2974	3082	3197	3320	3422	3518	3610	3709
TOTAL	5154	5124	5481	5723	5958	6221	6493	6715	6924	7099	7287

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TABLE 10

COMPARISONS OF ESTIMATES TO CONTRACTS 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
UNIVERSITY OF WASHINGTON

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	34235	33517	33532	-15	-0.04
Credit Hours	436949	429218	429510	-292	-0.07
Credit Hours/Student	12.76	12.81	12.81	-0.00	-0.03
Total FTE's	31736	31181	31210	-29	-0.09
Undergraduate	23915	23479	23482	-3	-0.01
Graduate	7820	7702	7728	-26	-0.34
Faculty Entitlements	1769.2	1740.7	1741.2	-0.5	-0.03

Washington State University (see Tables 11 and 12)

Fall 1980 enrollment was up 488 at Washington State University. This included an increase of 94 freshmen over last fall (see Table 2). The annual average faculty entitlement estimate for 1980-81 places the University at 29.5, or 3.2 percent, over contract. This estimated increase is supported by an increase in the average credit hour per student, and a three percent increase in the retention rate (see Appendix A). The percent of graduates relative to undergraduates is down slightly from the previous fall, but both areas are above 1979 levels (see Table 3).

Central Washington University (see Tables 13 and 14)

Central was the only four-year institution that had an enrollment decline in Fall 1980: down 358 from Fall 1979. However, this fact was mitigated by an increase in full-time day on campus students (over 200) and a significant increase in the average credit hour per student. Thus, even with the enrollment decline we estimate that Central's annual average faculty entitlement level will be 6.0, or 1.89 percent, below contract for 1980-81. Although within the tolerance band, the enrollment decline must be viewed with some concern since Central experienced a 7.0 percent drop in entering freshmen, and a 1.0 percent decline in the over-all retention rate (see Appendix A).

Eastern Washington University (see Tables 15 and 16)

Eastern had the largest enrollment growth among the four-year institutions: up 609, or 7.9 percent. This rate of growth, if sustained the rest of the academic year, would cause Eastern to be 35.1, or 8.9 percent, annual average faculty entitlements above contract. Eastern was up in a number of enrollment categories: transfers, freshmen, undergraduates and retention rate. It was down in graduate enrollment and the estimated annual average credit hour per student. However, There is little doubt regarding the substantive growth experienced by Eastern in Fall 1980.

The Evergreen State College (see Tables 17 and 18)

Evergreen's enrollment reached the highest level in its history this fall. Enrollment was 291, or 11.6 percent, above last year's figures and 6.0 percent over the previous high of 2,636 students in Fall 1976. It is now estimated that for the first time

Table 11

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
WSU

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	5236	5358.	5211	5072	4912	4730	4571	4565	4668	4830	4894
FEMALE	4805	4887	4788	4662	4518	4360	4249	4258	4366	4520	4541
TOTAL	10041	10245	9999	9734	9430	9090	8820	8823	9034	9350	9435
22-24											
MALE	2168	2341.	2290	2267	2241	2221	2185	2104	2006	1935	1899
FEMALE	1183	1166	1210	1215	1210	1205	1177	1135	1092	1058	1044
TOTAL	3351	3507.	3500	3482	3451	3426	3362	3239	3098	2993	2943
25-29											
MALE	1177	1248.	1280	1311	1324	1346	1349	1343	1333	1320	1282
FEMALE	538	608.	590	599	605	619	626	627	628	623	606
TOTAL	1715	1856	1870	1910	1929	1965	1975	1970	1961	1943	1888
30-34											
MALE	462	499.	510	538	562	589	612	634	650	659	667
FEMALE	232	247.	250	253	259	265	272	277	283	286	291
TOTAL	694	746.	760	791	821	854	884	911	933	945	958
35-44											
MALE	204	193.	217	230	243	259	277	290	306	320	337
FEMALE	160	164	180	192	203	216	229	237	245	252	261
TOTAL	364	357.	397	422	446	475	506	527	551	572	598
45-59											
MALE	46	40.	42	42	43	45	46	49	52	54	57
FEMALE	69	62	64	65	66	67	68	70	74	78	81
TOTAL	115	101	106	107	109	112	114	119	126	132	138
TOTAL											
MALE	9356	9736.	9610	9521	9387	9253	9104	9050	9081	9185	9204
FEMALE	7075	7210.	7163	7068	6945	6817	6708	6693	6777	6907	6916
TOTAL	16431	16947	16773	16589	16332	16070	15812	15743	15858	16092	16120
18-39											
MALE	9293	9679.	9550	9460	9325	9190	9040	8985	9015	9118	9136
FEMALE	6989	7134	7082	6986	6861	6732	6621	6604	6688	6817	6824
TOTAL	16282	16813.	16632	16446	16186	15922	15661	15589	15703	15935	15960
30-39											
MALE	712	732	769	810	848	893	935	973	1008	1033	1041
FEMALE	462	472.	494	510	528	548	569	584	602	616	633
TOTAL	1174	1204	1263	1320	1376	1441	1504	1557	1610	1649	1694

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TABLE 12

COMPARISON OF ESTIMATES TO CONTRACT 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
WASHINGTON STATE UNIVERSITY

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	16432	16946	16435	511	3.02
Credit Hours	240446	248795	238290	10505	4.22
Credit Hours/Student	14.63	14.68	14.50	0.18	1.23
Total FTE's	16713	17279	16500	779	4.51
Undergraduate	14660	15197	14659	538	3.54
Graduate	2052	2082	1841	241	11.58
Faculty Entitlements	903.7	924.4	894.9	29.5	3.19

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Table 13

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
CWU

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	1106	1157	1114	1091	1062	1019	978	961	976	1011	1047
FEMALE	1443	1531	1476	1446	1406	1352	1309	1294	1314	1361	1401
TOTAL	2549	2689	2590	2537	2468	2371	2287	2255	2290	2372	2448
22-24											
MALE	882	896	900	894	887	875	863	835	796	764	749
FEMALE	800	710	775	782	780	775	759	733	703	682	672
TOTAL	1682	1606	1675	1676	1667	1650	1622	1568	1499	1446	1421
25-29											
MALE	593	588	625	639	648	657	661	656	652	646	629
FEMALE	554	454	520	527	534	544	553	554	556	554	539
TOTAL	1147	1043	1145	1166	1182	1201	1214	1210	1208	1200	1168
30-34											
MALE	345	309	348	364	383	400	418	433	444	450	456
FEMALE	394	371	400	406	415	426	437	445	452	459	467
TOTAL	739	680	748	770	798	826	855	878	896	909	923
35-44											
MALE	241	243	265	282	299	318	339	356	375	393	413
FEMALE	514	452	531	569	604	642	678	713	742	770	800
TOTAL	755	695	796	851	903	960	1017	1069	1117	1163	1213
45-59											
MALE	123	113	117	119	122	125	128	132	140	149	155
FEMALE	343	266	304	306	309	315	321	330	345	363	379
TOTAL	466	378	421	425	431	440	449	462	485	512	534
TOTAL											
MALE	3306	3321	3382	3402	3414	3408	3401	3381	3397	3427	3463
FEMALE	4106	3832	4058	4090	4102	4109	4113	4125	4168	4245	4316
TOTAL	7412	7154	7440	7492	7516	7517	7514	7512	7565	7672	7779
18-59											
MALE	3292	3304	3369	3389	3401	3394	3387	3373	3383	3413	3449
FEMALE	4051	3784	4006	4036	4048	4054	4057	4069	4112	4189	4258
TOTAL	7343	7091	7375	7425	7449	7448	7444	7442	7495	7602	7707
30-59											
MALE	710	665	730	765	804	843	885	921	959	992	1024
FEMALE	1253	1089	1235	1281	1328	1383	1436	1488	1539	1592	1646
TOTAL	1963	1753	1965	2046	2132	2226	2321	2409	2498	2584	2670

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TABLE 14

COMPARISON OF ESTIMATES TO CONTRACTS 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
CENTRAL WASHINGTON UNIVERSITY

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	7412	7153	7827	-674	-9.42
Credit Hours	86627	87376	86800	576	0.66
Credit Hours/Student	11.69	12.21	11.09	1.12	9.20
Total FTE's	5894	5920	5895	25	0.42
Undergraduate	5534	5632	5571	61	1.08
Graduate	359	288	324	-36	-12.50
Faculty Entitlements	320.4	316.1	322.1	-6.0	-1.89

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Table 15

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
EWU

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	1283	1315	1376	1343	1303	1254	1208	1199	1221	1263	1291
FEMALE	1710	1837	1753	1711	1660	1601	1557	1552	1586	1642	1662
TOTAL	2993	3352	3129	3054	2963	2855	2765	2751	2807	2905	2953
22-24											
MALE	867	861	875	869	862	852	840	815	778	746	729
FEMALE	708	765	756	761	762	757	741	718	690	667	656
TOTAL	1575	1626	1631	1630	1624	1609	1581	1533	1468	1413	1385
25-29											
MALE	684	704	733	749	758	771	771	767	762	754	734
FEMALE	584	610	614	625	633	645	652	656	658	655	640
TOTAL	1268	1314	1347	1374	1391	1416	1423	1423	1420	1409	1374
30-34											
MALE	336	368	374	392	411	430	449	465	476	482	488
FEMALE	432	436	449	459	469	480	493	502	510	517	527
TOTAL	768	804	823	851	880	910	942	967	986	999	1015
35-44											
MALE	215	239	248	265	279	298	317	334	351	369	388
FEMALE	459	460	506	542	574	610	645	677	703	729	756
TOTAL	674	699	754	807	853	908	962	1011	1054	1098	1144
45-59											
MALE	112	101	105	107	110	113	116	122	129	137	144
FEMALE	190	228	208	211	213	217	220	228	240	252	264
TOTAL	302	329	313	318	323	330	336	350	369	389	408
TOTAL											
MALE	3532	3803	3723	3737	3735	3731	3714	3715	3730	3764	3787
FEMALE	4124	4666	4477	4505	4512	4516	4519	4548	4606	4685	4732
TOTAL	7656	8469	8200	8242	8247	8247	8233	8263	8336	8449	8519
18-59											
MALE	3499	3708	3711	3725	3723	3718	3701	3702	3717	3751	3774
FEMALE	4085	4334	4286	4309	4311	4310	4308	4333	4387	4462	4505
TOTAL	7584	8122	7997	8034	8034	8028	8009	8035	8104	8213	8279
30-39											
MALE	664	708	727	764	800	841	882	921	956	988	1020
FEMALE	1082	1123	1163	1212	1256	1307	1358	1407	1453	1498	1547
TOTAL	1746	1831	1890	1976	2056	2148	2240	2328	2409	2486	2567

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TABLE 16

COMPARISON OF ESTIMATES TO CONTRACTS 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
EASTERN WASHINGTON UNIVERSITY

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	7656	8469	7668	801	9.46
Credit Hours	98670	108249	95845	12404	11.46
Credit Hours/Student	12.89	12.78	12.50	0.28	2.20
Total FTE's	6773	7402	6575	827	11.17
Undergraduate	6184	6843	6019	824	12.04
Graduate	588	559	556	3	0.54
Faculty Entitlements	369.3	395.7	360.6	35.1	8.87

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since the contract enrollment process was implemented, Evergreen will be above contract with regard to annual average faculty entitlements. Although the fall average credit hour per student is up slightly, historical trends lead us to estimate that the annual average credit hour per student will be down in 1980-81. Maybe more important than this factor is the significant drop in the freshmen class: 129, or 14.8 percent, below last fall's level. In fact, this year's freshmen class equals the smallest freshmen class in the school's history: 745 students. On the positive side for the college, however, is the reversal of the historical decline in the retention rate (see Appendix A). The retention rate increased by 2.4 percent over last year, a significant turn around.

Western Washington University (see Tables 19 and 20)

Western continued its 1970's pattern of enrollment growth. Fall 1980 saw enrollments up 512, or 5.0 percent, over last fall. It is estimated that Western will be 18.5 or 3.7 percent annual average faculty entitlements over contract in 1980-81. Although the school was down in the number of graduate students (51), it was up in almost every other factor that contributes to enrollment growth: retention rate up 1.0 percent; entering freshmen up 316, or 12.1 percent; transfers from community colleges up 35, or 4.3 percent; undergraduates up 563, or 6.0 percent.

The Community Colleges

Preliminary Fall 1980 data indicates that the community college system is up 1,624, or 1.7 percent, state supported FTE's above fall of 1979 (see Table 21). This follows an increase of 2,154, or 8.8 percent, state supported FTE's from Summer 1979 to Summer 1980. The State Board for Community Colleges estimates the annual average state supported FTE figure to be 97,402: down 806, or 0.8 percent, from last fall. If their estimate is accurate the community colleges will find themselves 5,139, or 5.6 percent, state supported FTEs over contract for 1980-81. Our forecasts indicate that they could easily exceed 99,000 state supported FTE's for 1980-81 (see Table 22). Their estimate is lower since it reflects the impact of the three percent and two percent budget reductions.

Table 17

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES

TESC

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	376	403.	381	372	361	349	336	331	337	350	357
FEMALE	433	505	463	452	441	424	411	409	417	431	437
TOTAL	809	908	844	824	802	773	747	740	754	781	794
22-24											
MALE	316	303.	313	312	308	305	301	291	278	266	261
FEMALE	247	251.	255	257	257	256	251	243	233	225	221
TOTAL	563	554.	568	569	565	561	552	534	511	491	482
25-29											
MALE	244	289	281	287	291	294	296	296	293	290	282
FEMALE	192	254.	229	232	235	241	243	243	245	243	236
TOTAL	436	543.	510	519	526	535	539	539	538	533	518
30-34											
MALE	95	131.	119	125	131	137	142	148	150	153	154
FEMALE	147	168.	161	166	169	172	177	180	185	186	190
TOTAL	242	299.	280	291	300	309	319	328	335	339	344
35-44											
MALE	74	82.	84	90	95	102	108	114	120	125	133
FEMALE	141	186.	180	192	204	217	229	239	248	257	266
TOTAL	215	267.	264	282	299	319	337	353	368	382	399
45-59											
MALE	46	44.	44	44	45	46	48	49	53	55	58
FEMALE	76	89.	81	82	83	84	85	87	91	96	100
TOTAL	122	134.	125	126	128	130	133	136	144	151	158
TOTAL											
MALE	1173	1271.	1240	1248	1250	1253	1251	124'	1251	1260	1265
FEMALE	1281	1490.	1408	1421	1431	1437	1439	1445	1462	1482	1495
TOTAL	2454	2761.	2648	2669	2681	2690	2690	2694	2713	2742	2761
18-59											
MALE	1153	1252.	1222	1230	1231	1233	1231	1229	1231	1239	1245
FEMALE	1238	1453.	1369	1381	1389	1394	1396	1401	1419	1438	1450
TOTAL	2391	2705	2591	2611	2620	2627	2627	2630	2650	2677	2695
30-59											
MALE	215	257.	247	259	271	285	298	311	323	333	345
FEMALE	364	442.	422	440	456	473	491	506	524	539	556
TOTAL	579	700.	669	699	727	758	789	817	847	872	901

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TABLE 18

COMPARISON OF ESTIMATES TO CONTRACTS 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
THE EVERGREEN STATE COLLEGE

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	2455	2760	2551	209	7.57
Credit Hours	32629	36556	35250	1306	3.57
Credit Hours/Student	13.29	13.24	13.82	-0.58	-4.38
Total FTE's	2174	2474	2375	99	4.17
Undergraduate	2174	2437	2350	87	3.57
Graduate	0	37	25	12	48.0
Faculty Entitlements	118.3	137.3	131.1	6.2	4.73

Table 19

ANNUAL AVERAGE HIGHER EDUCATION ENROLLMENT FORECASTS
1981-82 TO 1989-90, SELECTED AGES
UUU

	1979-80 ACTUAL	1980-81 ESTIMATE	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
18-21											
MALE	2237	2364	2265	2208	2145	2065	1989	1973	2010	2077	2125
FEMALE	2866	3119	2959	2885	2801	2701	2628	2625	2682	2775	2803
TOTAL	5103	5483	5224	5093	4946	4766	4617	4598	4692	4852	4928
22-24											
MALE	1174	1270	1239	1228	1218	1205	1186	1146	1092	1051	1030
FEMALE	948	987	993	1000	1000	994	974	942	904	874	861
TOTAL	2122	2256	2232	2228	2218	2199	2160	2088	1996	1925	1891
25-29											
MALE	758	736	789	806	814	826	829	824	817	810	787
FEMALE	491	545	533	542	547	559	566	568	569	564	549
TOTAL	1249	1281	1322	1348	1361	1385	1395	1392	1386	1374	1336
30-34											
MALE	311	322	336	353	370	386	404	418	428	433	439
FEMALE	303	329	329	334	342	349	360	367	372	378	384
TOTAL	614	651	665	687	712	735	764	785	800	811	823
35-44											
MALE	192	153	189	201	212	226	242	254	266	280	295
FEMALE	300	283	322	344	365	388	410	429	445	460	478
TOTAL	492	436	511	545	577	614	652	683	711	740	773
45-59											
MALE	60	55	57	58	59	61	62	65	70	73	77
FEMALE	121	94	107	108	108	110	114	117	123	130	135
TOTAL	181	148	164	166	167	171	176	182	193	203	212
TOTAL											
MALE	4763	4925	4901	4880	4845	4797	4740	4709	4712	4752	4784
FEMALE	5086	5400	5292	5264	5214	5153	5105	5102	5150	5237	5267
TOTAL	9849	10325	10193	10144	10059	9950	9845	9811	9862	9989	10051
18-39											
MALE	4734	4900	4875	4854	4818	4769	4712	4680	4683	4724	4753
FEMALE	5031	5355	5243	5213	5163	5101	5052	5048	5095	5181	5210
TOTAL	9765	10256	10118	10067	9981	9870	9764	9728	9778	9905	9963
30-39											
MALE	565	530	582	612	641	673	708	737	764	786	811
FEMALE	725	706	758	786	815	847	884	913	940	968	997
TOTAL	1290	1236	1340	1398	1456	1520	1592	1650	1704	1754	1808

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TABLE 20

COMPARISON OF ESTIMATES TO CONTRACTS 1980-81
ENROLLMENTS, CREDIT HOURS, FTE's AND FACULTY ENTITLEMENTS
WESTERN WASHINGTON UNIVERSITY

	1979-80 Actual	1980-81 Estimate	1980-81 Contract	Difference Absolute	Difference Percent
Headcount	9849	10324	9838	486	4.71
Credit Hours	135440	142530	133900	8630	6.05
Credit Hours/Student	13.75	13.80	13.61	0.19	1.41
Total FTE's	9191	9666	9120	546	5.65
Undergraduate	8703	9171	8539	632	6.89
Graduate	488	495	581	-86	-17.37
Faculty Entitlements	479.8	496.3	477.8	18.5	3.72

OFFICE OF FINANCIAL MANAGEMENT
Forecasting & Support Division
December 8, 1980

TABLE 21

FALL QUARTER STATE-SUPPORTED FTE's

	1979	1980	Change	% Change
Academic	48,328	50,850	+2,522	+5.2%
Vocational	45,089	44,191	-898	-2.0%
Total	93,417	95,041	+1,624	+1.7%

Fall Academic and Vocational Headcount

	1979	1980	Change	% Change
Headcount	191,529	184,825	-6,704	-3.5%

Annual Average State-Supported FTEs

	1979-80	1980-81	Change	% Change
Academic	51,422	51,211	-211	-0.4%
Vocational	46,426	45,831	-595	-1.3%
Total	97,848	97,042	-806	-0.8%

SOURCE: State Board for Community College Education. Memorandum of November 6, 1980

TABLE 22

COMMUNITY COLLEGE FORECAST

1981-83 BIENNIUM

ANNUALIZED FTE's (STATE SUPPORTED)

	Academic	Vocation	%	Total	Growth	%	Contract
1977-78	45,130	40,536	47.3	85,666	2,479	3.0	
1978-79	45,069	43,124	48.9	88,193	2,527	3.0	88,243
1979-80	48,941	47,399	49.2	97,848	9,655	10.95	90,101
1980-81	50,177	49,380	49.6	99,557	3,217	3.4	91,903
1981-82	51,010	50,604	49.8	101,614	2,057	2.1	
1982-83	51,435	51,435	50.0	102,870	1,256	1.2	

1. Participation Rates = Fall 1979.

2. FTE's were calculated by multiplying the forcasted headcount x the Fall 1979 ratio of FTE's to headc unt x 1.03 (the ratio of Fall FTE's to Annual FTE's).

3. Contract FTE's were held at 2,000 for the forecast period.

The mix between academic and vocational FTE's changed again this fall, with another increase in the academic area. In Fall of 1979 academic FTE's comprised 51.7 percent of the academic/vocational mix. This fall, academic state supported FTE's comprised 53.5 percent of mix. The increase in the number of transfers from community colleges to the four-year institutions may be related to this phenomenon.

Demographic patterns in the state will apparently support the forecasted enrollment levels for community college services during the decade of the 1980's. Our population forecast indicates that the age groups from 25-35 will experience very significant growth during this decade. The average age of the present community college student is nearly 30 (see Table 23).

TABLE 23

COMMUNITY COLLEGE HEADCOUNT AND FTE FORECASTS BY AGE AND SEX 1980-1982

	FALL 1978 ACTUAL		FALL 1979 ACTUAL		FALL 1980		FALL 1981		FALL 1982	
	HEADCOUNT	FTE	HEADCOUNT	FTE	HEADCOUNT	FTE	HEADCOUNT	FTE	HEADCOUNT	FTE
17-20										
TOTAL	40753	31915.03	44574	34242.14	44461	34155.32	43722	33587.62	42689	32794.06
MALE	19787	15495.86	21665	16643.24	21691	16663.21	21350	16401.25	20829	16001.01
FEMALE	20966	16419.17	22909	17598.90	22770	17492.11	22372	17186.37	21860	16793.05
21-24										
TOTAL	30263	17742.28	32942	18696.07	34460	19557.59	35370	20085.41	35602	20205.73
MALE	15297	8968.13	16201	9194.79	17079	9693.09	17656	10020.57	17820	10113.64
FEMALE	14966	8774.07	16741	9501.27	17381	9864.50	17734	10064.84	17782	10092.09
25-29										
TOTAL	31839	14462.29	36776	16070.30	38823	16964.79	40559	17723.38	41929	18322.04
MALE	14645	6652.22	16491	7206.20	17385	7596.86	18223	7963.04	18886	8252.76
FEMALE	17194	7810.07	20285	8864.10	21438	9367.93	22336	9760.34	23043	10069.28
30-34										
TOTAL	24120	8996.36	28886	10375.38	31285	11237.05	32471	11663.05	33794	12138.25
MALE	9945	3709.32	11611	4170.48	12703	4562.71	13234	4753.43	13908	4988.34
FEMALE	14175	5287.04	17275	6204.90	18582	6674.35	19237	6909.61	19906	7149.91
35-39										
TOTAL	14001	4855.48	16980	5641.02	17953	5964.26	19592	6508.76	20835	6921.71
MALE	5256	1822.75	6295	2091.30	6646	2207.90	7227	2400.92	7658	2544.11
FEMALE	8745	3032.72	10685	3549.72	11307	3756.36	12365	4107.84	13177	4377.60
40-44										
TOTAL	9539	3488.93	10973	3829.09	11543	4027.99	12227	4266.68	13144	4586.67
MALE	3760	1375.24	4279	1493.18	4514	1575.88	4813	1679.52	5182	1808.29
FEMALE	5779	2113.71	6694	2335.91	7027	2452.11	7414	2587.16	7962	2778.38
45-49										
TOTAL	7042	2464.85	7789	2637.30	7918	2680.98	8089	2738.88	8328	2819.80
MALE	2814	984.96	3149	1066.23	3208	1086.21	3287	1112.95	3392	1148.51
FEMALE	4228	1479.89	4640	1571.07	4710	1594.77	4802	1625.92	4936	1671.29
50-54										
TOTAL	5317	1620.82	6093	1834.11	6089	1832.91	6071	1827.49	6044	1819.36
MALE	1991	606.93	2289	689.03	2305	693.85	2315	696.86	2313	696.26
FEMALE	3326	1013.89	3804	1145.08	3784	1139.06	3756	1130.63	3731	1123.10
55-59										
TOTAL	3687	993.73	4390	1123.38	4398	1125.43	4347	1112.38	4333	1108.79
MALE	1422	383.26	1632	417.62	1632	417.62	1608	411.48	1611	412.25
FEMALE	2265	610.47	2758	705.76	2766	707.81	2739	700.90	2722	696.55
60-64										
TOTAL	1911	463.57	2502	535.06	2568	549.17	2656	567.99	2698	576.97
MALE	751	182.18	926	198.03	945	202.09	975	208.51	985	210.64
FEMALE	1160	281.39	1576	337.03	1623	347.08	1681	359.49	1713	366.33
65+										
TOTAL	1783	384.98	2336	491.65	2596	503.28	2639	511.62	2692	521.89
MALE	601	129.77	856	165.95	877	170.02	890	172.54	908	176.03
FEMALE	1182	255.21	1680	325.70	1719	333.26	1749	339.08	1784	345.86
TOTALS										
TOTAL	170255	87388.19	194441	95475.44	202094	96598.75	207763	100593.19	212088	101815.25
MALE	76269	40310.61	85394	43336.04	88987	44869.43	91578	45821.06	93472	46351.82
FEMALE	93986	47077.62	109047	52139.43	113107	53729.33	116185	54772.18	118616	55463.43

NOTES:
1) UNKNOWN HEADCOUNTS ALLOCATED ACCORDING TO THE REPORTED DISTRIBUTION FOR BOTH AGE AND SEX AND UNKNOWN FTES BY AGE
2) FTES BY SEX ALLOCATED BY PERCENT DISTRIBUTION OF REPORTED HEADCOUNTS
3) HEADCOUNT FORECASTS BASED ON 1979 FALL PARTICIPATION RATES
4) FTE FORECASTS HEADCOUNT X FALL 1979 RATIO OF FTE TO HEADCOUNT

FORECASTING AND SUPPORT DIVISION/OFM/P223A

SECTION 4: ENROLLMENT DEMAND: SELECTED MEANINGS AND POSSIBLE CAUSES

Enrollment forecasts are an integral part of the budget process in higher education. They provide a benchmark for deliberations about funding levels and act as a guide for the development of long-range educational policies and planning. Because of their importance, questions inevitably arise concerning their accuracy or reasonableness. In recent years this concern has been expressed by the question, "Do the enrollment forecasts portray the actual student demand for educational services?"

Comparison of Selected Concepts of Demand

Forecasts deal in probabilities not absolutes. No one can know for certain what the future will hold. If the assumptions built into a forecast are realized then the forecast will accurately reflect future enrollment levels. If the assumptions do not materialize or if unanticipated events intervene, then it is unlikely that the forecast will accurately predict enrollment levels. However, to interject the concept of "demand" into the forecast process does nothing to inform one about the accuracy or inaccuracy of the forecast. In other words, to label an enrollment forecast a demand forecast does not change the fact that it is a forecast; a projection of probable enrollment levels. Nevertheless, the phrase "demand forecast" is regularly used by persons concerned with higher education. What is meant by the term demand? There are at least four meanings implied when one uses the concept of "demand": (1) Demand as a function of historical rates; (2) Funded Demand; (3) Demand as a function of institutional capacity and, (4) Unrestrained Demand.

Demand as a Function of Historical Rates

Used in this sense, enrollment demand is viewed as a function of historical enrollment levels in combination with anticipated population levels. The numerical ratio between enrollment and estimated population is assumed to remain at a constant level or participation rate for the forecast period. In addition, it is generally assumed that current budget and educational policies will also continue into the forecast period. Does this type of forecast reflect future student demand for educational services? It depends. If historical enrollment levels continue, if

demographic projections are reasonable, if present educational and fiscal policies are maintained, then yes, the forecast will provide a reasonable picture of future enrollment levels. If these components of change do not act accordingly, then the forecast will not be accurate. And herein lies the reason for the addition of the term "demand" to the forecast process. When the forecast underestimates enrollment levels, thereby directly affecting funding support levels, the claim is made that the forecast did not "capture" the actual number of students who required educational services; that is, the "demand" exceeded forecasted enrollment levels.

It is our contention that nothing is gained by claiming that an enrollment forecast does not reflect demand because it did not predict enrollment levels. The problem lies with the assumptions that went into the forecast. These are known and can be analyzed. Adding the subject dimension of "demand" to the process does not add to our understanding of the forecast. As can be seen below, the concept "demand" has a number of meanings and purposes.

Funded Demand

Since the mid 1970's the state has set levels of enrollment in higher education that it is willing and able to fund for the coming biennum. This figure is termed the "contract" enrollment level. In some instances the contract figure has been close to the forecasted enrollment level. When this occurred it was said that the state was funding the student demand. Thus, the term "funded demand." But the funded enrollment level does not, nor was it ever intended to, represent an enrollment forecast. Enrollment contracts reflect the state's best estimate of the enrollment level it can afford to fund. It is a negotiated figure, derived after examining historical forecasts, state and institutional policies, and the amount of revenues that are anticipated to be available in the forecast period.

Demand as a Function of Institutional Capacity

Another use of the concept "demand" relates to the number of on-campus students that the physical facilities of an institution are capable of accommodating. This figure is typically higher than forecasted enrollment levels. The reason it is higher is because a number of ideal conditions are assumed. For example, it is assumed that enrollment participation rates will increase over historical rates, that courses

and sections will be scheduled to maximum capacity, that housing and classroom facilities will be used to the fullest extent and that day-time facilities will also be used for evening courses. Furthermore, it is assumed that funding will be available and that current educational policies will change to allow the ideal enrollment conditions to exist. There is little doubt that the capacity figure is an important enrollment number for long-range planning purposes. Institutional administrators need to have an informed idea of the number of students their institution could enroll under ideal conditions. But an enrollent capacity figure is not a forecast. It does not project the number of students who will require educational services; i.e., future student demand. It is a planning number, a management goal.

Unrestrained Demand

Explicit in this use of the concept "demand" is the assumption that other forecasts are restrained and therefore do not reflect actual enrollment demand. In other words, an unrestrained demand forecast purports to describe the total number of persons in the state who desire higher education services. In order to arrive at this number historical enrollment levels, as well as past and present eduational and fiscal policies, are ignored. The obvious problem with this concept of demand is how to determine who desires to participate in the higher education system. If historical enrollment participation rates are seen as inadequate for purposes of enrollment forecasting, then we must ask by what criteria and methodology do we establish who wants to go to an institution of higher education? Short of counting all student applications, taking care to avoid duplications and no-shows, it would be impossible to verify this claim.

To summarize: Adding the term "demand" to obtain the concept "demand forecast" serves only to add a layer of subjectivity to enrollment forecasts that is unnecessary and undesirable. Indeed, the very question of whether or not a given enrollment forecast is a "demand forecast" should alert interested parties that special interests and needs are being considered.

Possible Causes of Enrollment Increases

There are a number of factors that have the potential to affect enrollment levels in the higher education system in the State of Washington. The following list is

certainly not exhaustive, but it does demonstrate the range of variables and factors that can and should be considered in future deliberations about this issue.

(1) Inmigration: Since 1973-74, Washington has been a net inmigration state; i.e., more people coming into the state than leaving. The age composition of the migrating population is extremely difficult to identify. It seems likely, however, that the majority are between the ages of 18 and 34; ages that are most likely to require higher education services.

(2) Economic Conditions: Historically it has been assumed that enrollments in higher education, particularly in the community colleges, increase when economic conditions are depressed. This is not happening in the state of Washington, as well as many other parts of the nation. The 1979-80 academic year saw record enrollment levels at a time when the state's economy was considered healthy. In other words, people appear to be going to school whether they are working or not.

(3) Demand For Credentials: Our society continues to increase the level of educational attainment and credentials that must be attained if one is to be competitive in the job market. This probably explains part of the reason why persons enroll in the higher education system even when the economy is strong and they are gainfully employed. Advancement in the work place requires ever increasing kinds and numbers of credentials. (see Christopher Jencks, Who Gets Ahead? The Determinants of Economic Success in America, 1979.)

(4) Women in the Labor Force: Related to the demand for credentials is the large increase of women in the labor market. Women find that they need special training and degrees in order to attain the jobs they desire. Subsequently, they increase the demand for educational services. Indeed, women now are responsible for all the growth in some age groups in the higher education system.

(5) Financial Aid: Total state and Federal student financial aid extended in the state of Washington exceeded 64 million in 1978-79. In some instances the parents of students are allowed to obtain loans to support their children's

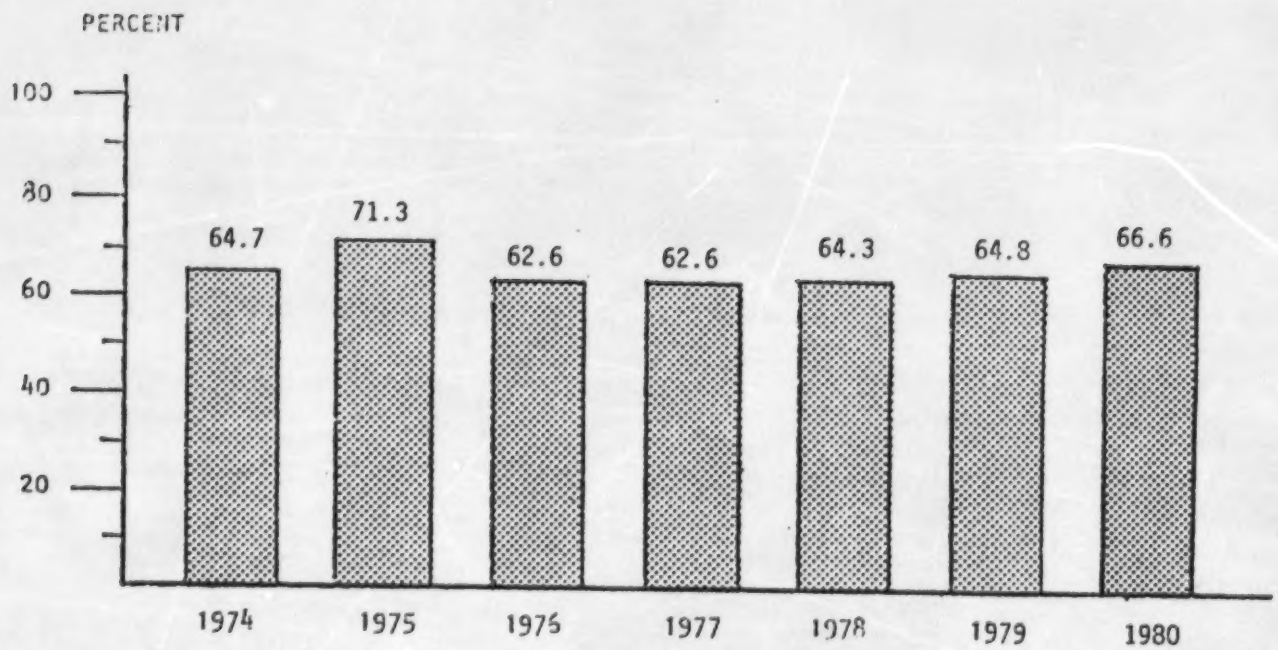
education. Equally important is the increased sophistication employed by institutions to inform students of the range of types of financial aid available to them. The amount of financial aid appears likely to remain substantial for the immediate future.

(6) Marketing: In the mid to latter part of the 1970's, convinced by forecasts of the eminent decline in enrollments, institutions of higher education adopted strategies and techniques common to the field of marketing to abate this problem. In many cases this simply involved the upgrading of the procedures traditionally used to inform potential applicants about the institutions. But in some instances the practice was carried to its logical conclusion; marketing personnel were hired from the business sector. Unofficial discussions with administrators of various institutions clearly support the fact that marketing practices do work; i.e., enrollments can be increased.

APPENDIX A

RETENTION RATES FOR THE
STATE COLLEGE AND UNIVERSITIES
Fall 1974 to Fall 1980

All Washington Public
Institutions of Higher Education
Percent Retention - Spring to Fall



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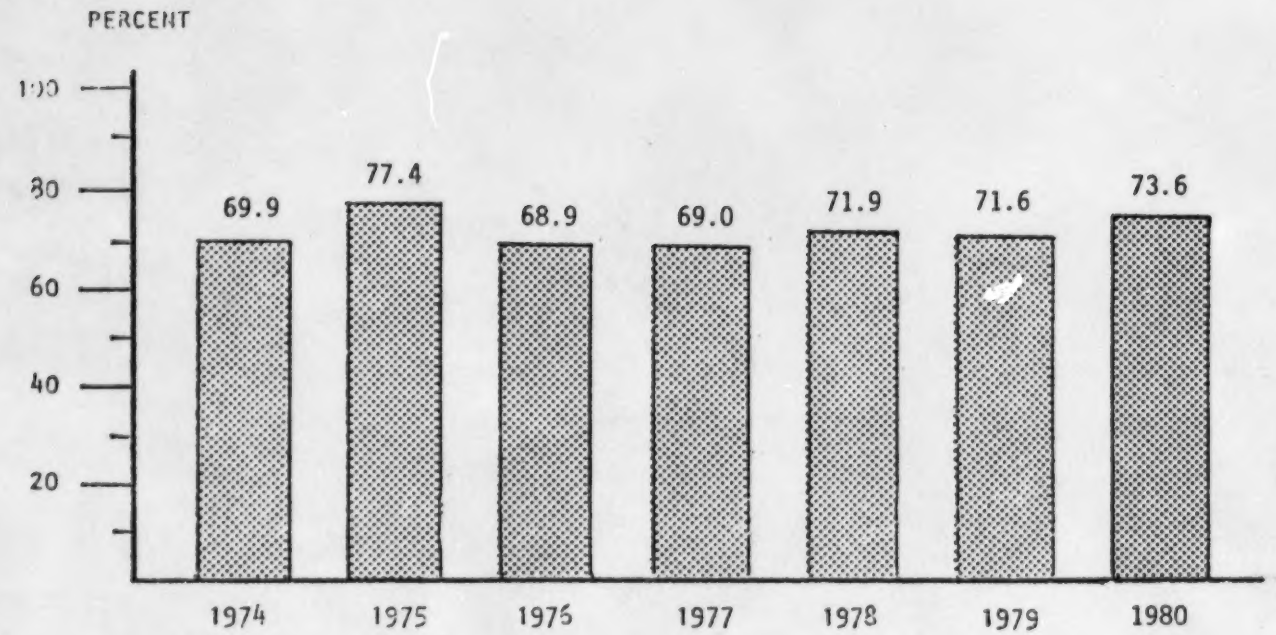
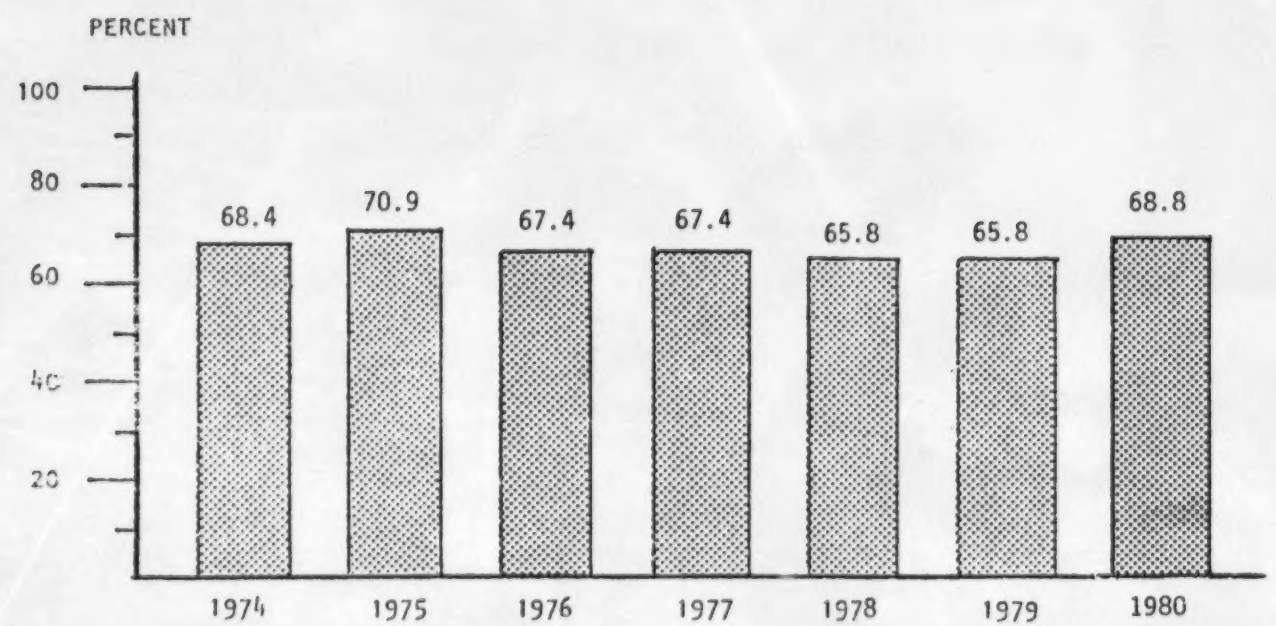
University of Washington
Percent Retention - Spring to Fall



Washington State University
Percent Retention - Spring to Fall



SOURCE: HEEP Reports

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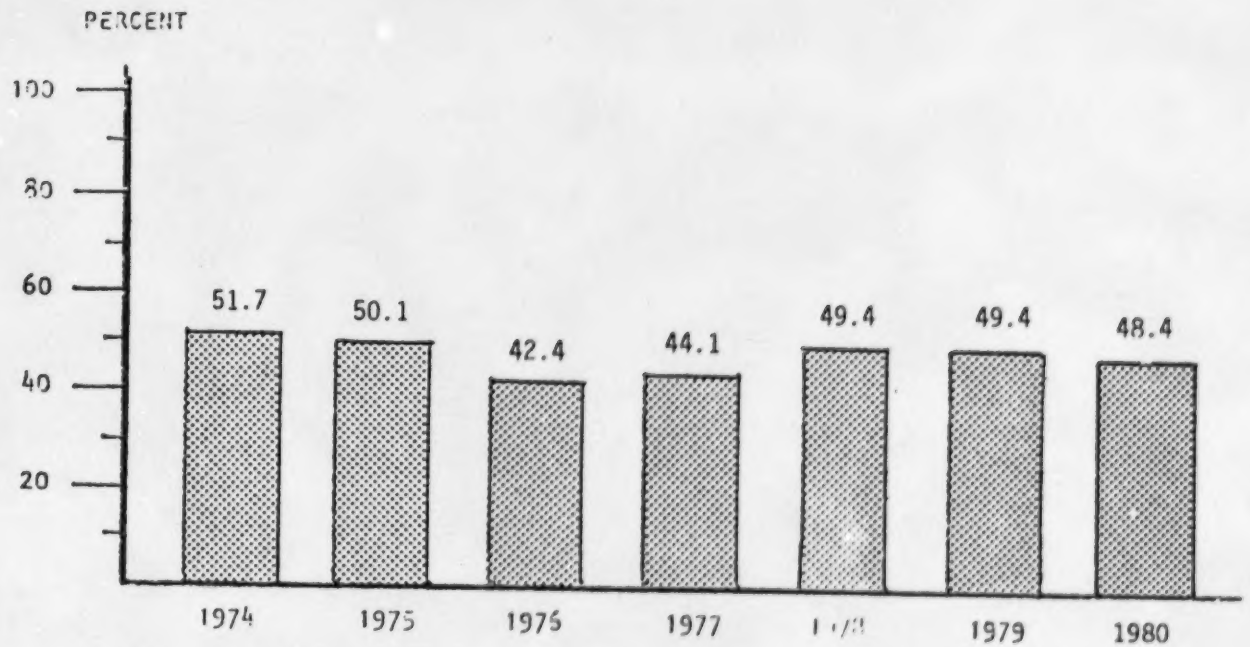
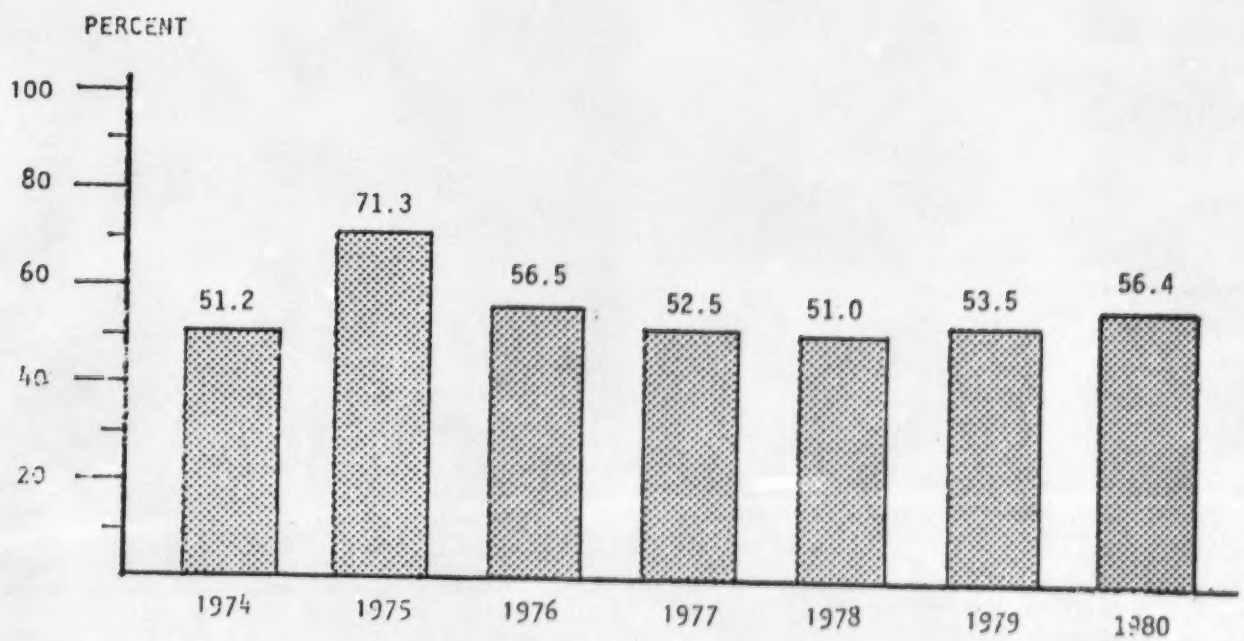
Central Washington University
Percent Retention - Spring to Fall



Eastern Washington University
Percent Retention - Spring to Fall



SOURCE: HEEP Reports

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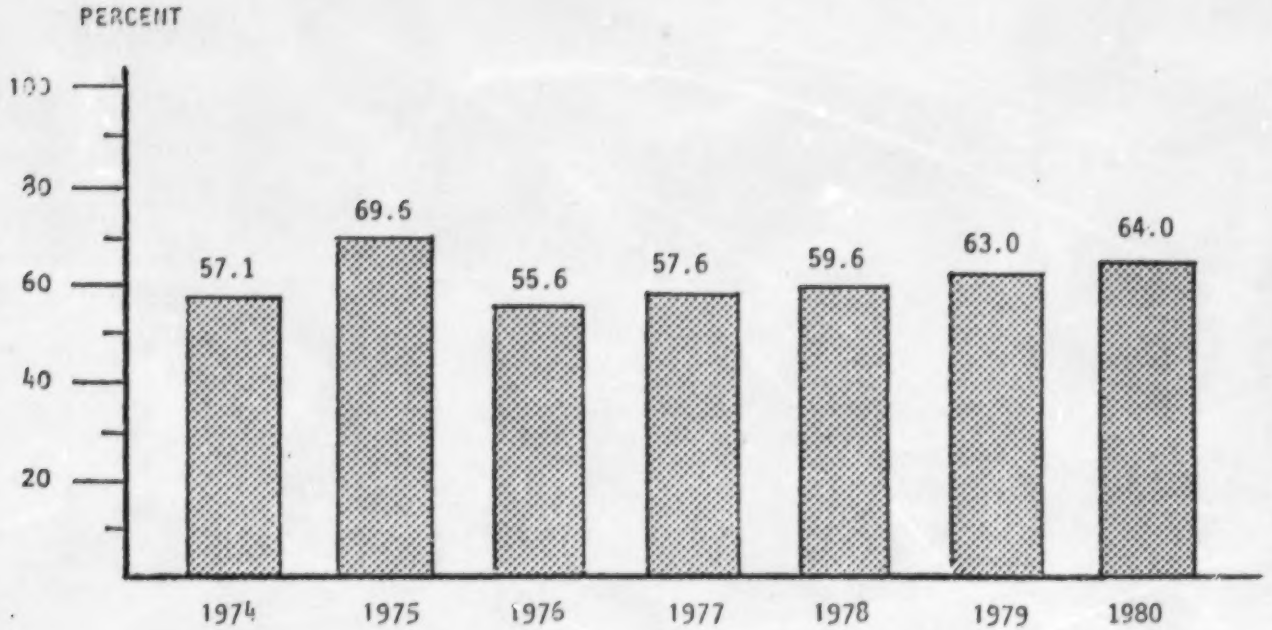
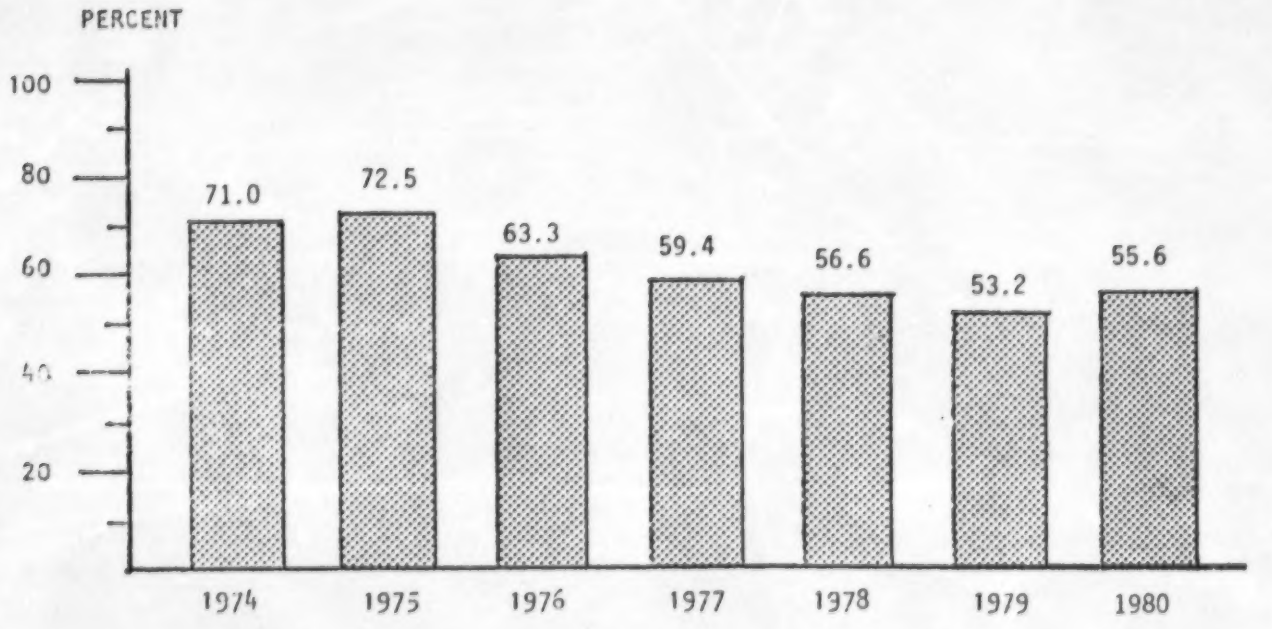
Western Washington University
Percent Retention - Spring to Fall



The Evergreen State College
Percent Retention - Spring to Fall



SOURCE: HEEP Reports

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11/80

APPENDIX B

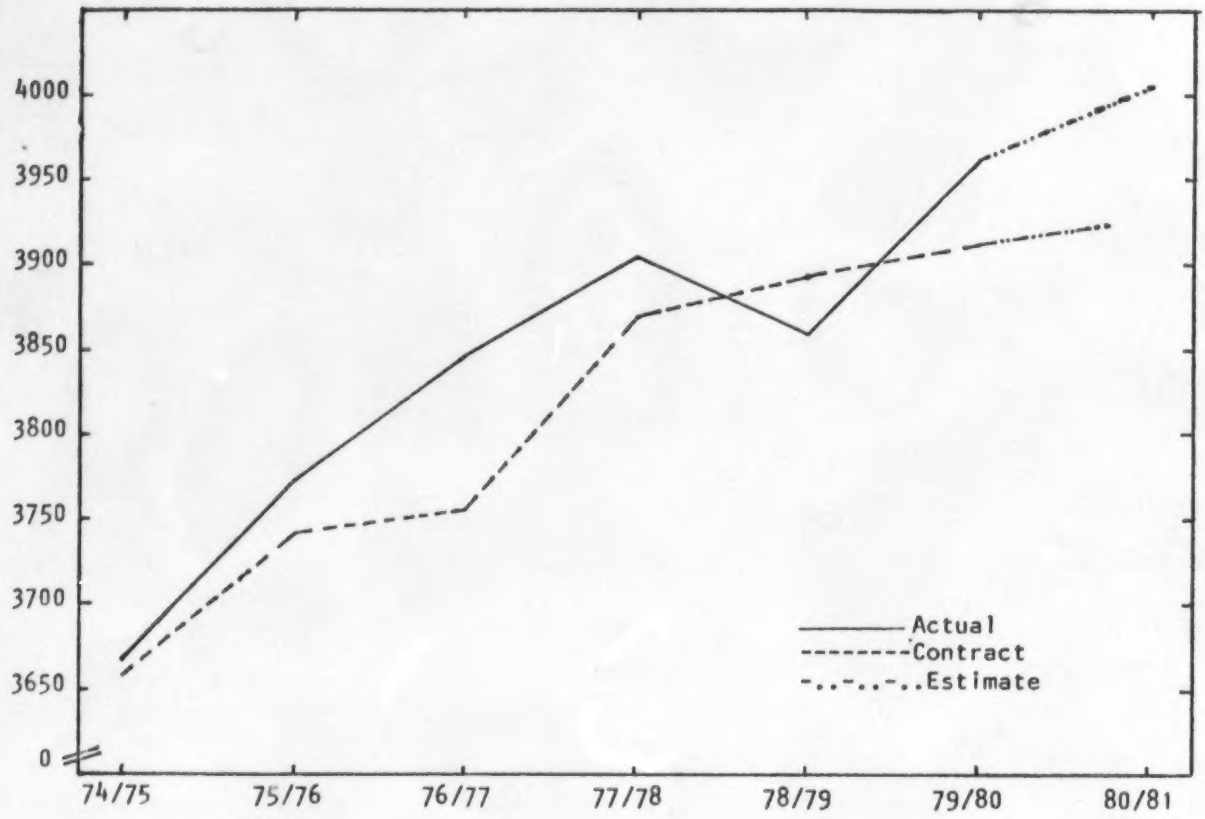
ANNUAL AVERAGE FACULTY ENTITLEMENTS
Compared to Contract
1974/75 - 1980/81

ANNUAL AVERAGE FACULTY ENTITLEMENTS

ACTUAL COMPARED TO CONTRACT

1974/75 - 1980/81

STATE

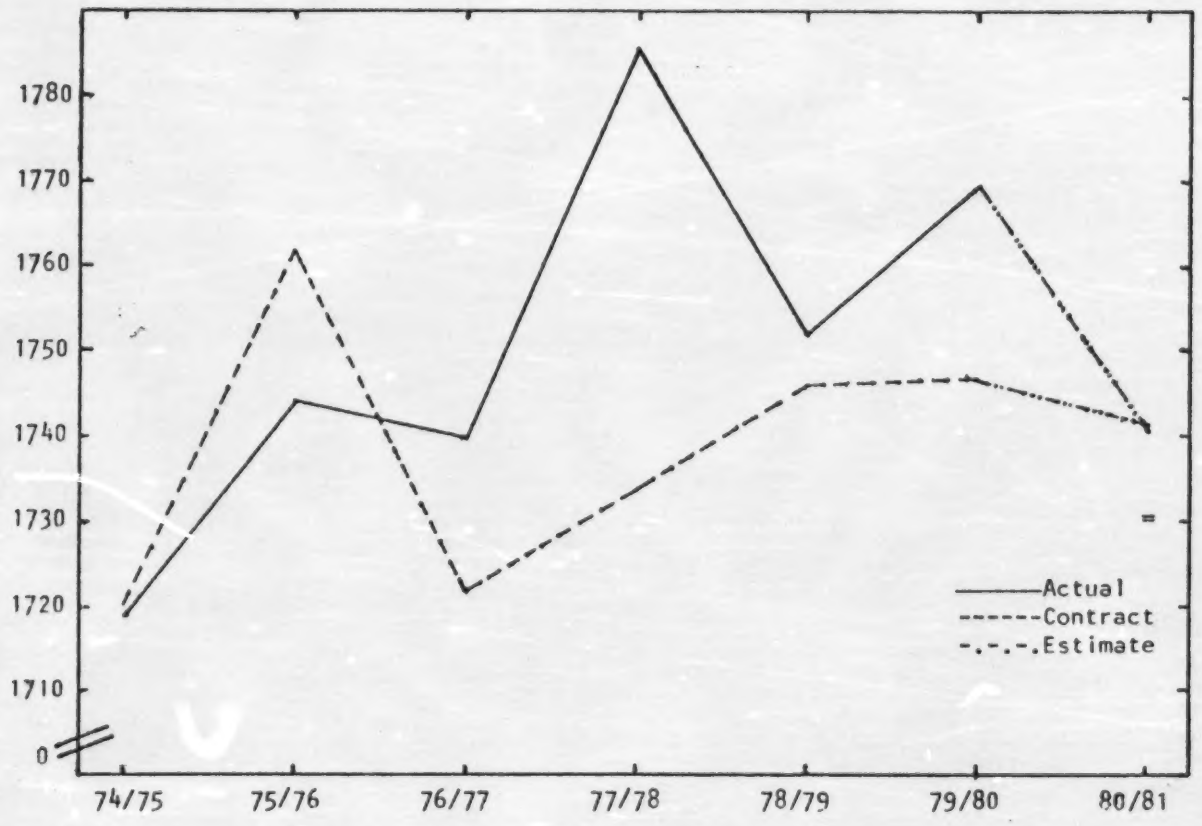


Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	3,667.2	3,773.0	3,846.0	3,904.4	3,858.2	3,960.7	4,005.5
Contract	3,658.7	3,741.2	3,755.3	3,868.1	3,892.1	3,911.4	3,924.1
Difference	8.5	31.8	90.7	36.3	-33.9	49.3	81.3
% Diff.	0.2	0.8	2.4	0.9	-0.9	1.3	2.1

[1]Estimate.

Note: Figures may not add due to rounding.

ANNUAL AVERAGE FACULTY ENTITLEMENTS
ACTUAL COMPARED TO CONTRACT
1974/75 - 1980/81
UNIVERSITY OF WASHINGTON



Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	1,719.0	1,744.0	1,739.5	1,785.3	1,751.9	1,769.3	1,740.7
Contract	1,720.2	1,761.7	1,721.9	1,733.8	1,745.9	1,746.8	1,741.2
Difference	-1.3	-17.7	17.6	51.5	6.1	22.5	-0.5
% Diff.	-0.1	-1.0	1.0	3.0	0.4	1.3	-0.0

[1]Estimate
Note: Figures may not add due to rounding.

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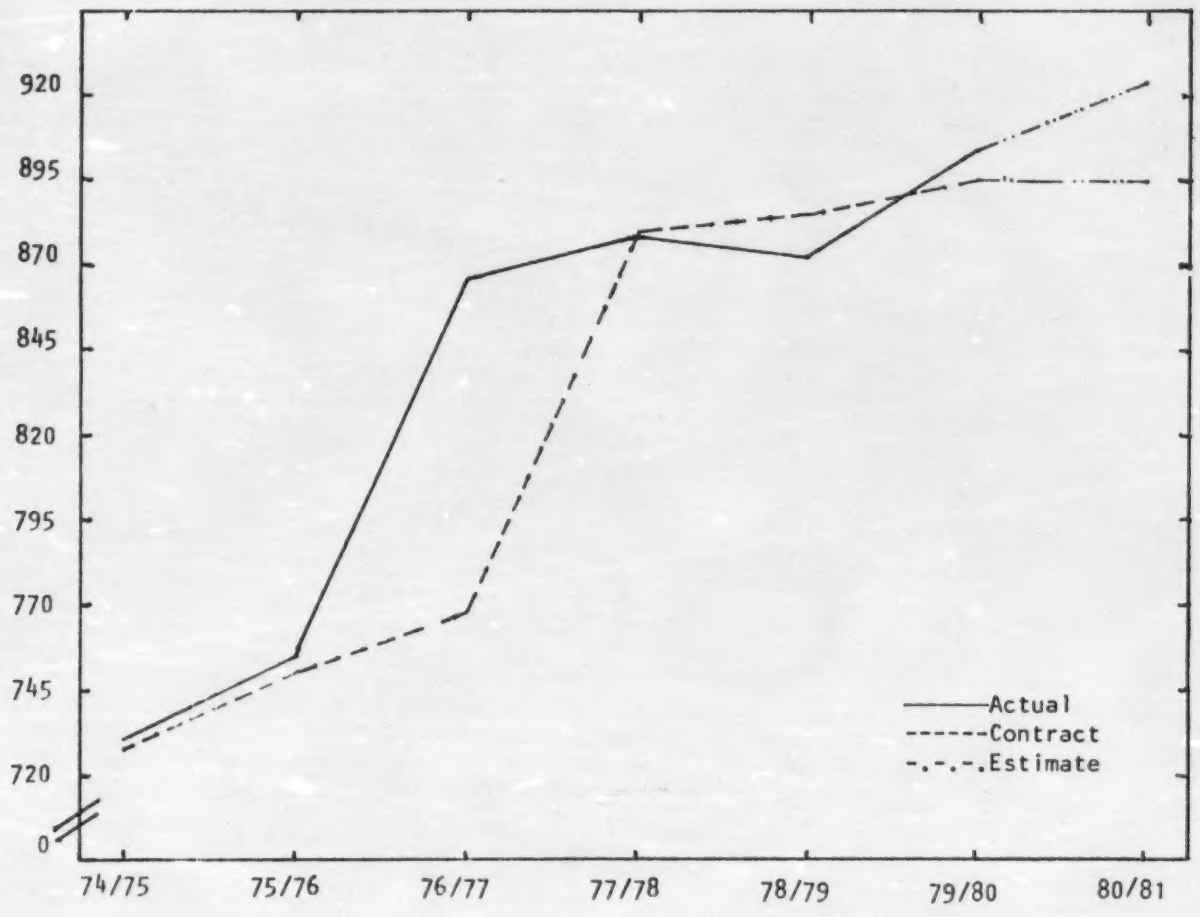
ANNUAL AVERAGE FACULTY ENTITLEMENTS
ACTUAL COMPARED TO CONTRACT
1974/75 - 1980/81
WASHINGTON STATE UNIVERSITY



Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	730.9	755.7	865.7	878.5	872.3	903.7	924.4
Contract	728.0	750.0	767.5	878.7	884.9	894.9	894.9
Difference	2.9	5.7	98.3	-0.2	-12.6	8.8	29.5
% Diff.	0.4	0.8	12.8	0.0	-1.4	1.0	3.2

[1]Estimate
Note: Figures may not add due to rounding.

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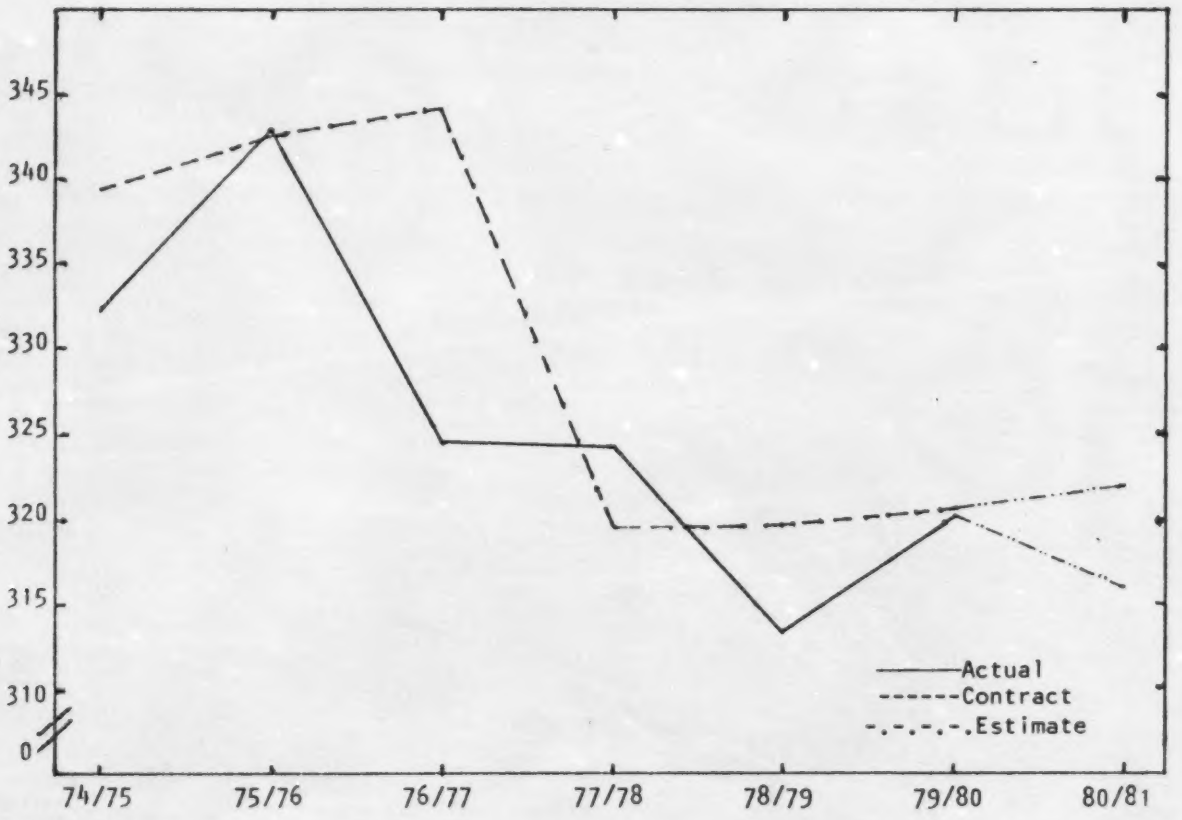
ANNUAL AVERAGE FACULTY ENTITLEMENTS

ACTUAL COMPARED TO CONTRACT

1974/74 - 1980/81

CENTRAL WASHINGTON UNIVERSITY



Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81
Actual	332.1	343.0	324.6	324.2	313.2	320.4	316.1
Contract	339.4	342.7	344.1	319.8	319.8	320.7	322.1
Difference	-7.3	0.3	-19.5	4.4	-6.6	-0.3	-6.0
% Diff.	-2.2	0.1	05.7	1.4	-2.1	-0.1	-1.9

[1]Estimate

Note: Figures may not add due to rounding.

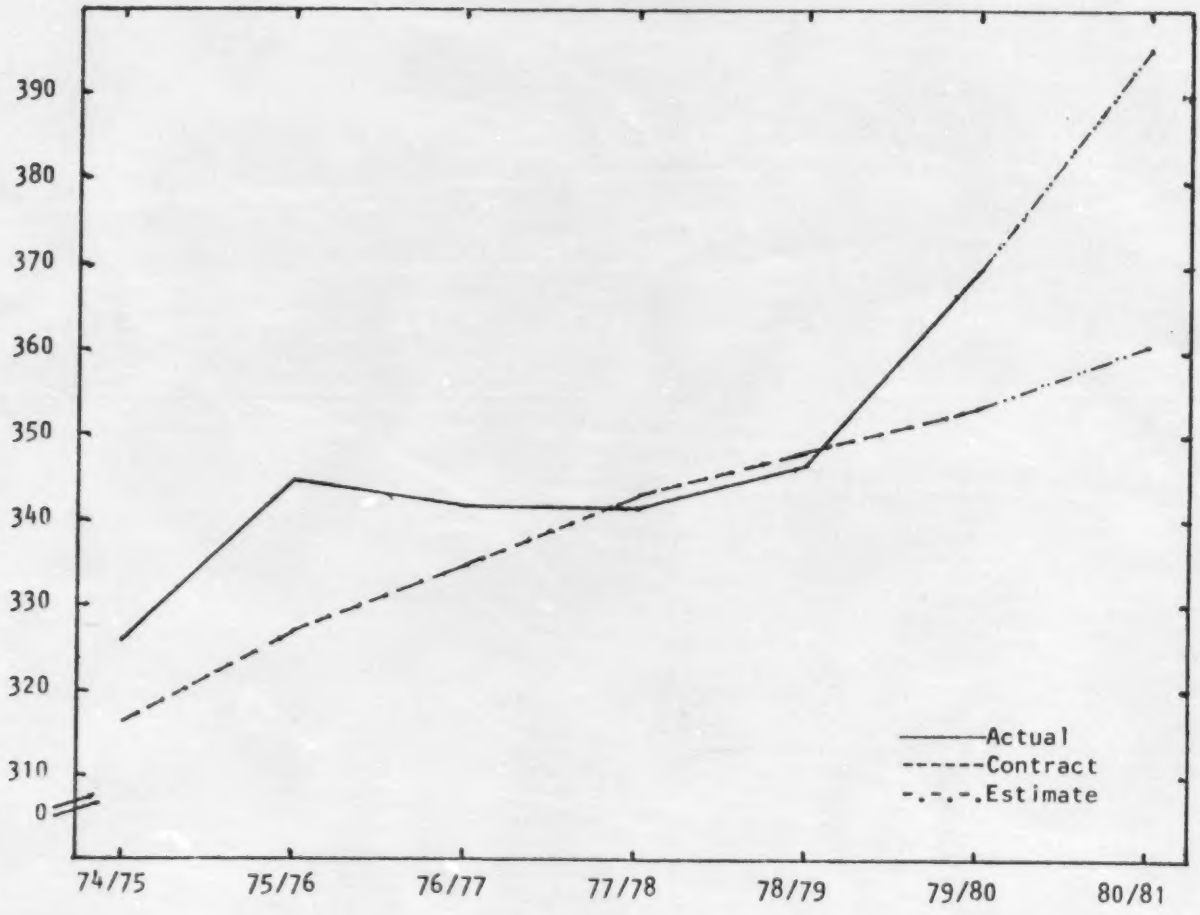
OFM/F&S/P-253-A
11/80

ANNUAL AVERAGE FACULTY ENTITLEMENTS

ACTUAL COMPARED TO CONTRACT

1974/75 - 1980/81

EASTERN WASHINGTON UNIVERSITY



Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	325.8	344.4	341.7	341.5	346.5	369.3	395.7
Contract	316.3	326.9	334.8	342.8	348.1	353.4	360.6
Difference	9.5	17.5	6.8	-1.4	-1.6	15.9	35.1
% Diff.	3.0	5.4	2.0	-0.4	-0.4	4.5	8.9

[1]Estimate

Note: Figures may not add due to rounding.

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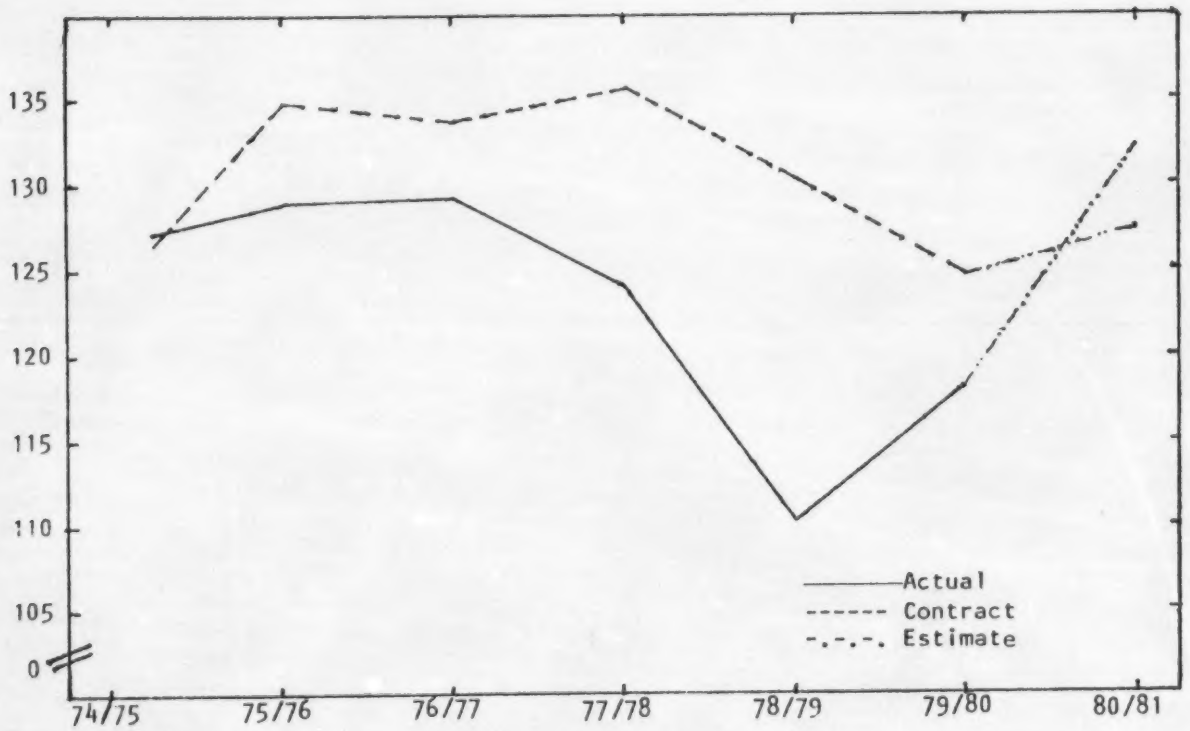
ANNUAL AVERAGE FACULTY ENTITLEMENTS

ACTUAL COMPARED TO CONTRACT

1974/75 - 1980/81

THE EVERGREEN STATE COLLEGE



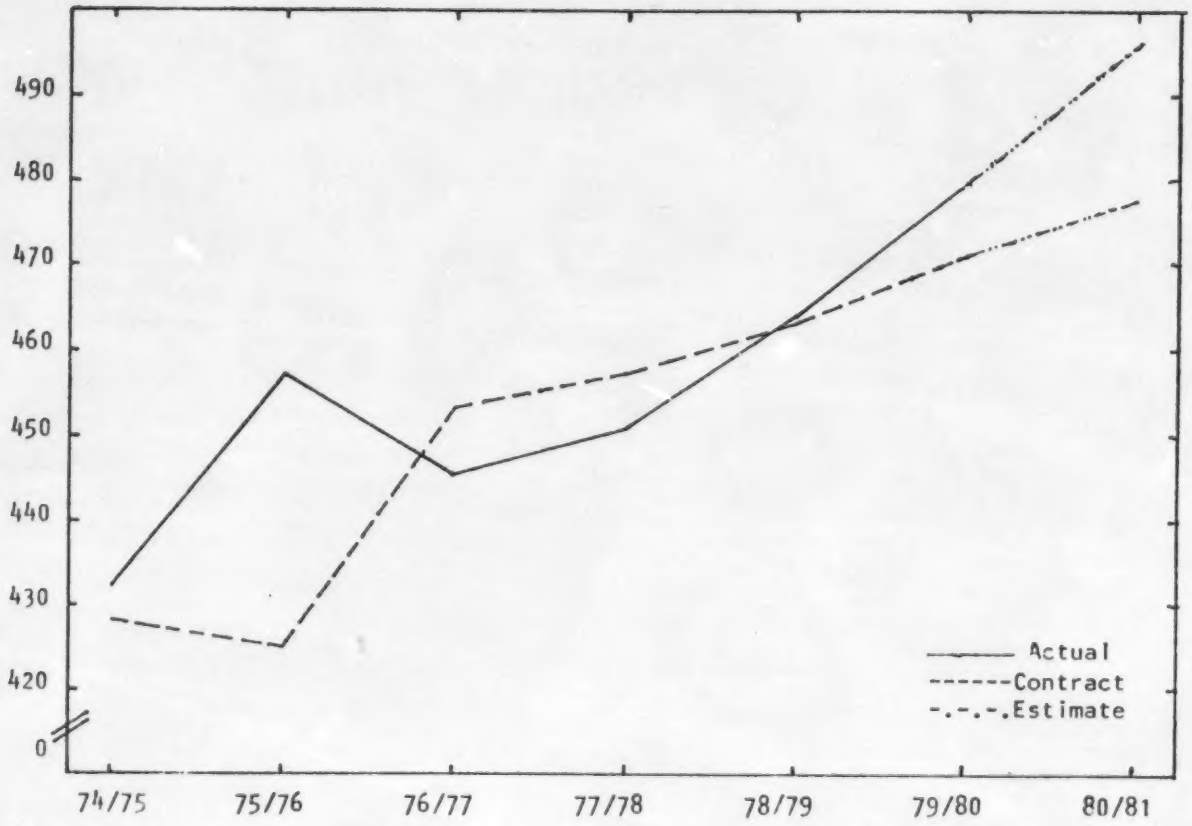
Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	127.2	128.8	129.1	124.0	110.3	118.3	132.2
Contract	126.5	134.8	133.7	135.7	130.2	124.8	127.5
Difference	0.7	-6.0	-4.7	-11.7	-20.0	-6.5	4.7
% Diff.	0.5	-4.4	-3.5	-8.6	-15.3	-5.2	3.6

[1]Estimate

Note: Figures may not add due to rounding

OFM/F&S/P-253-A
11/80

ANNUAL AVERAGE FACULTY ENTITLEMENTS
ACTUAL COMPARED TO CONTRACT
1974/75 - 1980/81
WESTERN WASHINGTON UNIVERSITY



Annual Ave.	74/75	75/76	76/77	77/78	78/79	79/80	80/81[1]
Actual	432.3	457.0	445.4	450.9	464.0	479.8	496.3
Contract	428.3	425.0	453.2	457.3	463.2	470.8	477.8
Difference	4.0	32.0	-7.8	-6.4	0.8	9.0	18.5
% Diff.	.9	7.5	-1.7	-1.4	0.2	1.9	3.7

[1]Estimate
Note: Figures may not add due to rounding.